C.2

APRIL 25, 1939 NUMBER 346

THE UNIVERSITY OF NORTH CAROLINA RECORD

THE ONE HUNDRED AND FORTY-FIFTH SESSION

THE ABRIDGED GENERAL CATALOGUE
(UNDERGRADUATE)

CATALOGUE ISSUE
1938-1939

Announcements for the Session
1939-1940

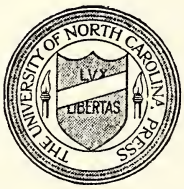
THE UNIVERSITY OF NORTH CAROLINA PRESS
ISSUED 12 TIMES A YEAR AS FOLLOWS: 4 NUMBERS IN FEBRUARY, 3 NUMBERS IN MARCH, 3 NUMBERS IN APRIL, 1 NUMBER EACH IN JUNE AND OCTOBER
ENTERED AS SECOND-CLASS MATTER AT THE POSTOFFICE AT
CHAPEL HILL, N. C.
UNDER THE ACT OF AUGUST 24, 1912

ISSUES OF THE UNIVERSITY RECORD 1938-1939

Research in Progress
Report of the President to the Trustees
Catalogue of Summer Session
Catalogue of School of Pharmacy
Catalogue of the School of Medicine
Catalogue of the School of Library Science
General Catalogue
The Division of Public Welfare and Social Work
The Division of Public Health
Catalogue of the Graduate School
Catalogue of the School of Law
Abridged General Catalogue

APRIL 25, 1939 NUMBER 346

THE UNIVERSITY OF NORTH CAROLINA RECORD



THE ABRIDGED GENERAL CATALOGUE
(UNDERGRADUATE)

CATALOGUE ISSUE
1938-1939

Announcements for the Session
1939-1940

THE UNIVERSITY OF NORTH CAROLINA PRESS
CHAPEL HILL, N. C.

Digitized by the Internet Archive
in 2014

http://archive.org/details/universityofnort346univ

TABLE OF CONTENTS

	PAGE
Catalogue of Events	4
Introductory Statement	5
Officers of Administration	6
General Information—The University	9
Admission and Records, Division of	14
Student Welfare, Division of	16
Student Government	17
The University Library	18
University Organizations	20
Expenses, Fees, etc.	25
Dormitory Accommodations	27
Fellowships and Scholarships	29
Free Tuition and Loan Funds	33
Student Employment	38
Regulations, General	39
Regulations Governing Athletics, etc	49
The General College	54
Admission to the General College	57
Programs in the General College	63
The College of Arts and Sciences	66
Admission to the College	68
The Upper Divisions of the College	70
The Division of Teacher Training	74
Curricula for A.B.-LL.B., etc	79
The School of Commerce	84
Admission to and Curricula of the School	89
Academic Departments	96
Descriptions of Courses by Departments	97

CATALOGUE OF EVENTS

Session, 1939-1940

1939

June 4-6	*Sunday through Tuesday.* Commencement Exercises.
June 8-July 18	Summer Session. First Term.
July 19-August 26	Summer Session. Second Term.
Sept. 11-14	*Monday through Thursday.* Freshman Week and Registration.
Sept. 11	*Monday.* Entrance Examinations.
Sept. 11-12	*Monday and Tuesday.* Examinations to remove condition grades.
Sept. 13	*Wednesday.* Registration of Freshmen and Transferring Students for the fall quarter.
Sept. 14	*Thursday.* Registration (all except Freshmen and Transferring Students) for the fall quarter.
Sept. 15	*Friday.* Class work for the fall quarter begins.
Oct. 12	*Thursday.* University Day.
Nov. 29	*Wednesday.* Thanksgiving Recess begins (1:00 p. m.).
Dec. 4	*Monday.* Thanksgiving Recess ends (8:30 a. m.).
Dec. 8	*Friday through Saturday (1:00 p. m.) of following week.* Registration for winter quarter.
Dec. 12-16	*Tuesday through Saturday (1:00 p. m.).* Examinations for the fall quarter.
Dec. 16(afternoon)-Jan. 1, 1940	Christmas Recess.

1940

Jan. 2	*Tuesday.* Registration of new students.
Jan. 3	*Wednesday.* Class work for the winter quarter begins.
Mar. 8	*Friday through Saturday (1:00 p. m.) of following week.* Registration for the spring quarter.
Mar. 12-16	*Tuesday through Saturday (1:00 p. m.).* Examinations for the winter quarter.
Mar. 17-24	*Sunday through Sunday.* Spring Recess.
Mar. 25	*Monday.* Registration of new students.
Mar. 26	*Tuesday.* Class work for the spring quarter begins.
June 3-7	*Monday through Friday.* Examinations for the spring quarter.
June 9-11	*Sunday through Tuesday.* Commencement Exercises.

INTRODUCTORY STATEMENT

This Abridged General Undergraduate Catalogue gives the information needed by any applicant for admission to the General College, the College of Arts and Sciences, or the School of Commerce. Anyone who is interested in the Graduate School, the Extension Division, the School of Library Science, the Division of Public Health, the Division of Public Welfare and Social Work, or any one of the professional schools of Law, Medicine, or Pharmacy is advised to write for a special catalogue covering the work in such school or division.

In this abridged catalogue will be found the following information:

Catalogue of Events, 1939-1940

Officers of Administration

General Information

Expenses—Fees—Dormitory Accommodations

Aid—Fellowships—Scholarships—Loans—Work

Regulations—Rules of Eligibility

The General College

The College of Arts and Sciences

The School of Commerce

The Departments of Instruction—Descriptions of Courses.

OFFICERS OF ADMINISTRATION

THE CONSOLIDATED UNIVERSITY
(Office at Chapel Hill)

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., D.Litt., *President*
*CHARLES THOMAS WOOLLEN, *Controller*

THE ADMINISTRATIVE COUNCIL

ROBERT BURTON HOUSE
ALLAN WILSON HOBBS
ARCHIBALD HENDERSON
WILLIAM WHATLEY PIERSON
WILLIAM FREDERICK PROUTY
JOHN WILLIAM HARRELSON
BENJAMIN FRANKLIN BROWN
ZENO PAYNE METCALF
JASPER LEONIDAS STUCKEY
LILLIAN LEE VAUGHAN
WALTER CLINTON JACKSON
BENJAMIN BURKS KENDRICK
HARRIET WISEMAN ELLIOTT
CORNELIA STRONG
JAMES ALBERT HIGHSMITH

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

GENERAL ADMINISTRATIVE OFFICERS

ROBERT BURTON HOUSE, A.M., *Dean of Administration*
THOMAS JAMES WILSON, JR., Ph.D., *Secretary of the Faculty*
ALLAN WILSON HOBBS, Ph.D., *Chairman* pro tempore *of the Faculty*
JULIUS ALGERNON WARREN, *Treasurer*

ADMINISTRATIVE OFFICERS OF INSTRUCTION

ALLAN WILSON HOBBS, Ph.D., *Dean of the College of Arts and Sciences and Chairman of the Committee on Instruction*
DUDLEY DEWITT CARROLL, M.A., *Dean of the School of Commerce*
CORYDON PERRY SPRUILL, A.B., B.Litt.(Oxon.), *Dean of the General College*

ADMINISTRATIVE OFFICERS OF STUDENT WELFARE

FRANCIS FOSTER BRADSHAW, Ph.D., *Dean of Students, Chairman of the Division of Student Welfare*
SAMUEL WILLIAM JOHN WELCH, S.B., *Assistant to the Dean of Students*
FRED HENRY WEAVER, A.B., *Assistant to the Dean of Students*
MRS. MARVIN HENDRIX STACY, *Adviser to Women*
WALTER REECE BERRYHILL, A.B., M.D., *University Physician*
EDWARD MCGOWAN HEDGPETH, A.B., M.D., *Associate University Physician*

* Died 21 September 1938.

WILLIAM GARDNER MORGAN, A.B., M.D., *Assistant University Physician*
ROBERT EDWARDS STONE, A.B., M.D., *Assistant University Physician*
FOY ROBERSON, M.D., *Surgical Consultant for Freshman and Varsity Football Squads*
ROBERT ALLISON FETZER, B.S., M.A., *Director of Physical Education and Athletics*
OLIVER KELLY CORNWELL, M.A., *Director of Physical Education for Men*
GLADYS ANGEL BEARD, M.A., *Director of Physical Education for Women*
HARRY FULCHER COMER, M.A., *General Secretary of the Y. M. C. A.*
EDWIN SIDNEY LANIER, *Self-Help Secretary*
ROBERT NATHANIEL MAGILL, A.B., *Director of Graham Memorial*

ADMINISTRATIVE OFFICERS OF ADMISSIONS, REGISTRATION, AND RECORDS

THOMAS JAMES WILSON, JR., Ph.D., *Dean of Admissions, Registrar, and Editor of The University of North Carolina Record*
BEN HUSBANDS, A.B., *Associate Registrar*
GEORGE KENNETH GRANT HENRY, Ph.D., *Assistant Registrar*

The Central Office of Records

ISAAC CEBERN GRIFFIN, JR., M.A., *Director*
MISS JOSEPHINE PRITCHARD, *Recorder*

ADMINISTRATIVE OFFICERS OF THE BUSINESS ORGANIZATION

LIVINGSTON BERTRAM ROGERSON, C.P.A., *Assistant Controller and Local Business Officer*
JOHN SAMUEL BENNETT, B.S., R.E., *Supervisor of Utilities and Auxiliary Enterprises*
JAMES HENRY BLOW, *Superintendent of General and Buildings Service*
JAMES ARTHUR BRANCH, *Assistant Supervisor of Purchases and Stores*
PETER LAFAYETTE BURCH, *Superisor of Physical Plant*
ERRETT FRANK COOLEY, *Manager, Univ. Cafeteria Dining Hall*
THOMAS HILTON EVANS, B.S., *General Cashier*
MRS. HELEN THOMAS GRIMES, A.B., *Loan Fund Cashier*
GEORGE MAURICE HILL, *Supervisor of Purchases and Stores and Personnel Officer*
THERA EARL HINSON, S.M., *Superintendent of Residence Halls*
ARTHUR RUSSELL HOLLETT, S.M. in C.E., R.E., *Assistant Supervisor of Physical Plant*

JOHN WESLEY HUMPHRIES, *Superintendent of Laundry*
WILBUR SCHULTZ KUTZ, B.S., *Manager of Book Exchange*
ALFRED ALLEN PICKARD, *Superintendent of Grounds*
ALEXANDER HURLBUTT SHEPARD, A.B., M.A., *Supervisor of Accounting and Control*
GEORGE EDWARD SHEPARD, B.S., *Manager of Woollen Gymnasium*
JAMES LEIGH SKINNER, *Resident Manager of Carolina Inn*
RALPH CULLEN SMITH, C.P.A., *Chief Accountant*
HENRY EDWARD THOMPSON, S.B., in E.E., *Superintendent of Public Utilities*
JAMES RALPH WEAVER, A.B. in Educ., *Commercial Cashier*
JAMES ALLEN WILLIAMS, A.B., LL.B., *Supervisor of Credits and Collections and Manager of Student Loan Funds*

THE UNIVERSITY LIBRARY

CARL MILTON WHITE, Ph.D., *Librarian*

THE UNIVERSITY EXTENSION DIVISION

RUSSELL MARVIN GRUMMAN, B.H., *Director*
EDGAR RALPH RANKIN, A.M., *Head, Department of School Relations*
WILLIAM JOHN MCKEE, C.E., Ph.D., *Supervisor of Correspondence Instruction*
MISS MARY LOUISA COBB, A.B., *Head, Bureau of Correspondence Instruction*
MISS KATHLEEN WRIGHT, *Head, Bureau of Class Instruction*

ALUMNI OFFICES AND CAROLINA INN

JOSEPH MARYON SAUNDERS, A.M., *Alumni Secretary*
JAMES LEIGH SKINNER, *Resident Manager, Carolina Inn*

THE UNIVERSITY NEWS BUREAU

ROBERT WILSON MADRY, A.B., *Director*

THE UNIVERSITY OF N. C. PRESS

WILLIAM TERRY COUCH, A.B., *Director*

HILL HALL OF MUSIC

GLEN HAYDON, Ph.D., *Director*

PERSON HALL ART GALLERY

RUSSELL TRAIN SMITH, A.B., M. Arch., *Director*

PART TWO

GENERAL INFORMATION

THE UNIVERSITY

FOUNDATION AND GOVERNMENT

The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the University opened its doors in January, 1795.

By the Constitution adopted in 1868 the General Assembly has "power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchises and endowments thereof in anywise granted to or conferred upon the trustees of said University; and the General Assembly may make such provisions, laws and regulations, from time to time, as may be necessary and expedient for the maintenance and management of said University." The Governor of the state is *ex officio* President of the Board of Trustees.

The same Constitution, in connection with "Benefits of the University," further states: "The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition; also, that all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University."

ORGANIZATION AND DEGREES

The University is organized into a General College (which gives the general academic work of the first two years), a College of Arts and Sciences, and six schools which have jurisdiction over degrees as shown below.

The College of Arts and Sciences: Bachelor of Arts, Bachelor of Arts in Journalism, Bachelor of Science in Chemistry, Bachelor of Science in Geology, Bachelor of Science in Physics, Bachelor of Arts and Laws (with the School of Law), Bachelor of Science in Medicine (with the School of Medicine).

THE SCHOOL OF COMMERCE: Bachelor of Science in Commerce, Bachelor of Science in Commerce and Laws (with the School of Law).

THE GRADUATE SCHOOL: Master of Arts, Master of Science, Master of Science in Social Work, Doctor of Philosophy.

THE SCHOOL OF LAW: Bachelor of Laws, Doctor of Laws, Bachelor of Arts and Laws (see above), Bachelor of Science in Commerce and Laws (see above).

THE SCHOOL OF MEDICINE: Bachelor of Science in Medicine (see above).

THE SCHOOL OF PHARMACY: Bachelor of Science in Pharmacy.

THE SCHOOL OF LIBRARY SCIENCE: Bachelor of Arts in Library Science.

In the Summer Session are offered many courses for which regular University credit is allowed, including special courses designed primarily for the teachers of the State. Practically all the work offered is of collegiate grade and may be counted towards some degree from the University.

There is also a Division of Extension through which the services of the University Faculty and certain material equipment of the University are made available to the people of the State generally.

THE GENERAL FACULTY OF THE UNIVERSITY

By action of the Trustees of the University the General Faculty includes all members of the University's teaching force above the rank of Instructor and all general administrative officers of the institution. In the President and the General Faculty is vested final authority (under the Trustees) over all matters of University policy and activity. Under the General Faculty the Colleges and the Schools have separate Faculties and Administrative Boards, which have final authority over matters pertaining solely to such Colleges or Schools.

SCHOLARSHIPS AND OTHER FINANCIAL ASSISTANCE

There are certain endowed scholarships available for students who can show good attainments in scholarship along with definite financial need. Information in regard to them can be secured by writing to Dean D. D. Carroll.

The University has a sum of money which may be loaned to worthy students who can show definite need. Information can be secured from Mr. J. A. Williams.

There are a certain number of positions involving various kinds of work which enable some students to earn a part of their expenses. Information about this can be secured from Mr. Edwin S. Lanier.

Students should not come to the University unless they are able to pay their bills immediately upon registration. All arrangements about payment of bills must be made in advance of registration, whether by way of loans, scholarships, acceptance of notes, or in any other manner.

THE COLLEGE YEAR

The college year is divided into fall, winter, and spring quarters of approximately twelve weeks each, and a summer session divided into two terms of about six weeks each. The School of Law divides its work into two terms instead of three quarters; it conducts a summer session also coinciding in extent with the summer session in academic subjects. There is a Thanksgiving recess of three days, a Christmas recess of approximately two weeks, and a spring recess of about six days.

RELIGIOUS INFLUENCES

Through the cooperation of all concerned, religious influences of unusually effective character surround the University student. Chapel exercises are held in Memorial Hall at ten-thirty o'clock. The Young Men's Christian Association, to which the University makes annual contributions, is of great value in the life of the campus.

The larger denominations of the state have erected at Chapel Hill modern and adequate church plants. The Chapel Hill churches are manned by an effective and cooperative group of pastors, are all located in close proximity to the campus, and play a very large and genuine part in the life of the University.

DISCIPLINE

The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty, or for misconduct. See also under the heading of Student Government.

PHYSICAL EDUCATION

Hearty encouragement is given to athletic sports and to all kinds of physical culture.

In addition to inter-collegiate athletics the University fosters an unusually extensive program of intra-mural sports, involving over half the undergraduates in a wide variety of games. Complete schedules are played in a variety of individual and team activities, including tennis, golf, fencing, table tennis, bowling, boxing, wrestling, track and field, quoits, tag-football, indoor and outdoor baseball, basketball, and soccer. Intra-mural teams offer every interested student opportunity for participation in some interesting and healthful form of competition with his fellows, for learning team work and good sportsmanship.

Physical education is required of all freshmen in the afternoons twice each week for the year. A course in hygiene is required of all freshmen once each week for the year.

A thorough physical examination is given to students at the time of entrance. All students are classified on the basis of the examination and effort is made to adapt the program to the individual's particular needs. Particular attention is given to various remediable defects and individual programs are built with the idea of improving or correcting the existing condition.

It is hoped that all students can develop sufficient skill in various recreational activities that continued participation in the activity will result.

The program of intercollegiate athletics includes a great variety of seasonal competitive games with the idea of promoting maximum participation by members of the student body.

More advanced courses in physical education are offered to upperclassmen who plan to become athletic directors or coaches.

The physical education of women students is under the charge of Mrs. Gladys Angel Beard as Director and a group of administrative officers as a board. Each entering woman student is carefully examined and tested for the purpose of discovering defects and correcting them. Arrangement for this examination is made when the student consults the Adviser to Women. Vigorous exercise and recreation are provided by tennis, archery, dancing, track work, basketball, and hockey; and inter-class competition is encouraged.

MEDICAL ATTENTION

In order to provide proper attention for the student during sickness the University employs four full time physicians and maintains a well appointed infirmary. The infirmary is equipped with all necessary conveniences and comforts, and with a modern X-ray unit and laboratory for diagnostic purposes under the direction of a full time technician. It is under the immediate

supervision of the University Physician, and is provided with four experienced nurses. At the discretion of the University Physician a student may be admitted to its wards, and for such services as may be rendered by the staff no charges are made. But should any additional service (consultation, special nurses, operations requiring the attendance of a trained surgeon), recommended by the attending physician and approved by the parent or guardian, be necessary, the student will be required to pay for such service.

THE DIVISION OF ADMISSIONS AND RECORDS

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., D.Litt., *President*
ROBERT BURTON HOUSE, A.M., *Dean of Administration*
THOMAS JAMES WILSON, JR., Ph.D., *Dean of Admissions*

*THE ADMINISTRATIVE BOARD

ALLAN WILSON HOBBS, Ph.D. — ROBERT BURTON HOUSE, A.M.
DUDLEY DEWITT CARROLL, M.A. — CORYDON PERRY SPRUILL, JR., A.B., B.Litt. (Oxon.)
FRANCIS FOSTER BRADSHAW, Ph.D.
BEN HUSBANDS, A.B., *Secretary*

GENERAL STATEMENT

After the conclusion of the World War the University found it necessary in many ways to revise and modify previously existing modes of action. In March, 1920, the University Advisory Committee proposed a more definite organization of separate schools or faculties and the establishment of administrative boards for these separate schools. The proposals were adopted.

After about ten years it was generally felt that developments subsequent to the above action had led to practices not in accord with the plans adopted in 1920. After full investigation and discussion by the Advisory Committee and the Administrative Officers of the University new regulations were proposed to the General Faculty and were adopted.

By these regulations the Special Faculties of Law, Medicine, Pharmacy, **Engineering, and of the Graduate School and the Undergraduate Faculty were definitely provided and their jurisdictions, powers, and duties were defined. At the same time were settled the status, powers, and duties of the Administrative Boards of all schools and divisions. See Catalogue for 1930-1931, page 30 and following. Schools organized subsequently have similar arrangements.

The division named at the head of this section was organized in 1931 for the purposes indicated by its title in order still further to organize and make more effective existing agencies. This division was at first appointed (and with a somewhat different personnel) as the Committee on Admissions, with instructions to investigate and discuss conditions along this line and to make a report to the President.

* In matters involving any of the Schools of Law, Medicine, Pharmacy, the Graduate School, or the School of Library Science the Dean or Director of the School concerned will sit as an active member of the Administrative Board.

** Work in engineering is no longer offered here.

Following the formal report made on the deliberations and recommendations of the above committee the work was felt to be of enough importance to justify the organization of a division with a dean and administrative board. In the matter of admissions it is expected that the Administrative Board of this division will at its regular and special meetings continually keep a live and constructive interest in the establishment of policies and plans for improving the quality of our student body.

THE DIVISION OF STUDENT WELFARE

GENERAL STATEMENT

The Division of Student Welfare was established to coordinate and promote the work of all University agencies and organizations affecting the welfare of students. Its work is understood to embrace all University relationships with students other than formal instruction. These relationships all have educational significance and are recognized as an integral part of the educational program of the University.

In recent years of University growth many agencies have come into existence to promote in various ways the wholesome growth of students and student life. To relate most effectively the respective functions of such agencies and to focus the entire guidance resources of the institution on the particular needs of students both as individuals and as groups is the responsibility of this division through its Administrative Board.

*THE ADMINISTRATIVE BOARD

Allan Wilson Hobbs
Mrs. Marvin Hendrix Stacy
Dudley deWitt Carroll
Robert Burton House
John Coriden Lyons
English Bagby
Harry Fulcher Comer
Walter Reece Berryhill
Robert Baker Lawson
Robert Allison Fetzer
J. Maryon Saunders
William Decatur Perry
Harry Wolven Crane
Wesley Critz George
James Allen Williams
Robert Nathaniel Magill
Livingston Bertram Rogerson
Raymond B. Wolf
Edward McGowan Hedgpeth
Ernest Lloyd Mackie
Harl Roy Douglass
Samuel William John Welch
Fred Henry Weaver
Oliver Kelly Cornwell
Harold Diedrich Meyer
Corydon Perry Spruill
Edwin Sidney Lanier
Francis Foster Bradshaw, *Chairman*

Because of the intimate relationship of this division to student life, there is an Advisory Board composed of students appointed annually by the President of the University on the joint nomination of the President of the Student Body and the Chairman of the Board. The following students were appointed for 1938-1939:

Allen Hunter Merrill
John Augustus Moore
Felix Markham
Elizabeth Malone
Brooks Patten
Voit Gilmore
Charles Paddock Wales
James Evans Davis
James McMurray Joyner, *Chairman*

* The President and the Dean of Admissions are *ex officio* members of this Administrative Board.

STUDENT GOVERNMENT

The student body of the University is self-governing. The functions of this government are both disciplinary and constructive. These functions are exercised by the Student Council and the Class Honor Councils.

THE STUDENT COUNCIL, 1938-1939

James McMurray Joyner, *Chairman, ex officio*
William Houston Hendrix, *Vice-Chairman*
James Fred Rippy, Jr., *Secretary-Treasurer*

William Blount Campbell
Jack Phifer Fairley
Joseph Mordecai Kittner
William Archie Dees, Jr.
Henry Edward Hudson
Grey Bryan Kornegay
Edwin Albert Rasberry

The Student Council is composed of ten members, as follows: Representatives of the three upper academic classes, one representative from each of the professional schools of Law, Medicine, and Pharmacy, two hold-over members elected by the members of the previous Council, and the President and Vice-President of the Student Body. The members elected on the Council must be chosen from among those who have served on the Council before. The President of the Student Body is *ex officio* Chairman of the Council.

Student government, in so far as it is disciplinary, is based upon the honor principle. No code of rules is laid down to direct a student what to do and what not to do. The only standards are those of morality and gentlemanly conduct. The Student Council is the executive expression of the honor principle. It is the concrete expression of the moral University. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines the matter, finds the facts in the case, and decides upon the course to be pursued. If the student is found guilty of conduct unworthy of a University man, he is promptly required to withdraw from the University. Among the offenses demanding withdrawal may be mentioned drunkenness, cheating, and gambling.

In each of the four undergraduate classes there is a special Class Honor Council of seven men elected by the class and advised by a faculty member appointed by the President on recommendation of the Student Council. These honor councils are especially responsible for educating the class on the honor system and trying cases of alleged violation. The class council is responsible only for establishing the fact of guilt, the sentence being determined by the Student Council.

THE UNIVERSITY LIBRARY

Carl Milton White, A.B., B.S. in L.S., Ph.D., *Librarian*

Cornelia Spencer Love, A.B., B.L.S., *Chief, Order Department*

Georgia Hicks Faison, A.B., B.L.S., *Chief, Reference Department*

Elizabeth Hardy Thompson, A.B., B.L.S., *Chief, Catalogue Department*

Mary Lindsay Thornton, *Chief, North Carolina Collection*

Alma Stone Skaggs, A.B., A.B. in L.S., *Chief, Periodical Department*

Olan Victor Cook, A.B., A.B. in L.S., *Chief, Circulation Department*

Nellie Roberson, A.B., *Chief, Library Extension Department*

Wendell Wayne Smiley, A.B., A.B. in L.S., *Chief, Documents Department*

The University Library contains more than 360,000 volumes. It is housed in a modern library building completed in 1929. The seating capacity is one thousand readers and the present book capacity is approximately 450,000 volumes. In addition to the resources of the general reference rooms, the Library has a collection of 63,203 bound periodicals, and 3,943 current periodicals, newspapers, and transactions of various societies are currently received, continuing and supplementing the bound sets.

Special collections of importance include the following: Hanes Foundation for the Study of the Origin and Development of the Book, the Southern Historical Collection of 1,500,000 manuscripts, the North Carolina room with 59,000 items relating to this state, the Rural Social-Economics collection, the Archibald Henderson Collection of American Drama, the Spanish drama collection of 12,000 titles, and a collection on the Negro. The Library has an extensive bibliographical division and contains a depository card catalogue of the Library of Congress, the John Crerar Library, and the Duke University Library, and partial files of the printed catalogue cards of Harvard College and of the University of Chicago. There is a public documents collection, federal, state, local, and foreign, of 146,059 pieces.

Library funds are expended under the direction of the librarian, the Administrative Board of the Library and Library School, and professors in charge of departments. The annual addition of books from purchase, donations, and exchanges is approximately 20,000 volumes.

There are seminar rooms in the Library to facilitate advanced work in English, German, Greek and Latin, Romance Literatures, and History. For instructors and graduate students 150 individual carrells are available in the bookstacks.

There is a total of eleven departmental libraries. Five of these are in charge of regular attendants: commerce, Phillips Hall, law, geology, and rural social-economics. The others, botany, chemistry, medicine, music, pharmacy, and zoology, are under the supervision of the instructors in those departments and the librarian.

UNIVERSITY ORGANIZATIONS

Below are listed the various organizations in the University in which students find opportunities of advantage outside their regular academic or professional work. Those who are interested are urged to investigate these organizations.

THE SENATE OF THE DIALECTIC LITERARY SOCIETY AND THE GENERAL ASSEMBLY OF THE PHILANTHROPIC LITERARY SOCIETY

The Dialectic and the Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University and they have shown remarkable power in developing character, as well as in training the intellect. They offer facilities for practice in debate, oratory, and essay writing; and their members become familiar with parliamentary law and procedure.

In 1919 the Philanthropic Society was reorganized on the plan of the General Assembly of the State and changed its name accordingly. Similarly in 1924 the Dialectic Society after reorganization became the Dialectic Senate.

THE ELISHA MITCHELL SCIENTIFIC SOCIETY

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A *Journal,* which is the official organ of the Society and of the North Carolina Academy of Science, is issued quarterly. The objects of the society are to encourage scientific research and to record the results of such work, especially those that pertain to the natural history of the State. It is now in its fifty-fifth year. The volumes already issued contain more than seven thousand pages. By the exchange of the *Journal* with more than three hundred scientific journals and periodicals many thousands of books and pamphlets have been collected, all of which are arranged in the University Library. The membership is at present restricted to the faculty and students of the University, and members of the staff of the State Department of Conservation and Development.

THE PHILOLOGICAL CLUB

The Philological Club meets in the lounge of the Graduate Club on the first Tuesday evening of each month during the college year. Its membership consists of the faculty and ad-

vanced students in the departments of language and literature of the University. The objects of the club are to stimulate original investigation in language and literature and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed.

DER DEUTSCHE VEREIN

The Verein was established for the purpose of maintaining and stimulating among the officers and students of the University interest in German literature and music, life and customs, progress and achievements. The aim is to employ the German language as much as possible. The effort is made to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language.

LE CERCLE FRANCAIS

Le Cercle Français holds bi-monthly meetings at which topics of general interest pertaining to French literature and French life, manners, and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French language, and to provide its members with an opportunity to hear idiomatic French spoken and to use the language with more facility. All officers and students of the University interested in the study of French are eligible for membership.

EL CLUB ESPANOL

The membership of *El Club Español* consists of students of the University who are interested in Spanish. The objects of the club are to stimulate interest in the language, literature, and customs of Spain, and to give its members an opportunity to hear and speak Spanish.

THE NORTH CAROLINA CLUB

The North Carolina Club was organized September 25, 1914, for the purpose of providing an open forum to review, interpret, and discuss the economic, social, and civic problems of the State. It is an organization composed of students and faculty members who are bent upon accurate, intimate acquaintance with North Carolina. The Club meets for an hour upon fortnightly Monday evenings for the reading and discussion of a paper prepared by a member for each meeting.

MUSICAL ORGANIZATIONS

The Auditorium of Hill Music Hall, seating eight hundred people, with its four manual concert organ, is the home of

recitals and concerts by faculty members, students in the department of music, and visiting artists. An average of approximately twenty-five concerts and recitals are given during the year.

Hill Hall contains a collection of records, scores, books on music, together with phonographs for audition purposes, which are accessible to all students of the University during certain hours daily. Provision is made for the reception of the weekly broadcasts of symphonies, operas, and other important programs.

The Department of Music extends its facilities with respect to both faculty and equipment to the support of the musical organizations. The work in Glee Club, Orchestra and Band is carried on as a regular part of the curriculum in music. For conditions governing the granting of college credit for participation in these organizations see Department of Music.

The University Glee Clubs

The Men's Glee Club and the Women's Glee Club are open to all students of the University. Each group devotes its time to the study and performance of appropriate vocal literature and the schedule is so arranged that the two groups may join forces for the interpretation of compositions for a mixed chorus. Provision is made for frequent concert appearances of these organizations.

The University Symphony Orchestra

The personnel of this organization includes students, faculty, and townspeople. The rehearsals are devoted to the study of standard symphonic literature and several concerts with instrumental and vocal soloists as assisting artists are given during the year.

The University Band

The band is open to all students of the University. Special attention is given to the study and performance of the standard musical literature for this type of ensemble group. In addition, especially during the fall quarter, the band cooperates with the Athletic Association in providing music for the football games, and usually makes one or more trips with the team. During the winter and spring quarters, as conditions permit, concert tours throughout the State are arranged.

The Chapel Hill Choral Club

The Chapel Hill Choral Club, an informal organization of students, faculty, and townspeople, gives two or three performances each year. In recent years such works as Bach's Christmas

Oratorio, Schubert's Mass in E Flat, Gounod's St. Cecilia Mass, Haydn's The Seasons, and Verdi's Requiem Mass have been given. Rehearsals are held each Monday evening.

Alpha Rho Chapter of Phi Mu Alpha (Sinfonia)

This chapter of the national honorary musical fraternity is composed of students of music, and such other students and faculty members as reveal particular interest in the participation in musical performance. The members of the chapter act as hosts for all musical events occurring in Hill Music Hall throughout the year. In order to create a fund from which scholarships for worthy students of music may accrue, the Alpha Rho chapter of Sinfonia sponsors from time to time concerts by well-known musical artists.

THE CAROLINA PLAYMAKERS

The Carolina Playmakers is the University dramatic organization.

Its purpose, as set down in the Charter, is: "First, to promote and encourage dramatic art, especially by the production and publishing of plays; Second, to serve as an experimental theatre for the development of plays representative of the traditions and present-day life of the people; Third, to extend its influences in the establishment of a native theatre in other communities." It is incorporated under the laws of the State of North Carolina as a non-stock corporation.

The Carolina Folk-Plays and other plays of American locale are written and produced in the University courses in Dramatic Composition and Production, members of the community of Chapel Hill—students, faculty, and townspeople—assisting. Those who contribute to the writing or producing of the plays constitute the membership of the organization. Any student may participate in any of the various departments of the work.

The Playmakers now have their own theatre building on the campus, fully equipped for all manner of experimentation and production. Besides this, their Forest Theatre furnishes an ideal setting for out-of-door productions. They have an adequate workshop for the construction and painting of scenery and for the making of costumes.

The large stage in the University auditorium, Memorial Hall, provides ample facilities for traveling professional companies.

YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association is an organization of students which seeks by precept and example to encourage right

and wholesome Christian living. In this spirit it endeavors to extend a helping and active influence to every sphere of campus activity.

Not unaware of its essentially religious nature, it strives in every feasible way to make the religion of the campus very real and very genuine, and to uphold the Christian life as the ideal in conduct, thought, and temperament for every man. To those who are so inclined it offers unlimited opportunity for religious service and personal growth.

The Association has very greatly enlarged its program and staff in the past seven years, keeping step with progress in all other departments of the University, and with the increase in student enrollment.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The Young Women's Christian Association is a voluntary organization for women students in the University. It is a religious, social, and welfare agency to give opportunity for the individual's development in these extra-curricular areas and to provide specific service to women students. This Association was organized early in 1936 and is affiliated with the Student Young Women's Christian Association movement in the United States. With its duly elected staff of officers and advisory board, the Y. W. C. A. has its regular Cabinet meetings weekly and a public program fortnightly, in addition to a number of committees working on various service projects. All women students in the University are eligible to membership.

EXPENSES

The University reserves the right to make, with the approval of the proper authorities, changes in any fees at any time.

Tuition and Other Fees for Each Quarter

Each student whose *bona fide* residence has not been established in North Carolina for at least the six months immediately prior to his first registration in the University must pay an extra reciprocal charge for each fall, winter, or spring quarter he spends in residence. The residence of a minor is that of his parents or guardian. The residence of an adult remains with his parents unless he shall have independently set up his own.

Bona fide residence in North Carolina means that the student is not in the State primarily to attend the University and that his status as a resident has not been set up merely as a technical bar to the extra charge. Mere ownership of property or payment of taxes apart from residence does not qualify one as a resident; nor may a student qualify by living in North Carolina the six months immediately prior to his first registration unless he continues so to live during the whole period of his stay at the University.

Students are presumed to know their correct residence status and to state the facts concerning it truthfully on their application and registration blanks. Students in doubt should appeal their cases in writing to the Dean of Administration, preferably in advance of registration. Students who misrepresent the facts of their residence status for the purpose of defrauding the University will be dealt with as are all other violators of the honor code.

For residents of North Carolina the fees payable at the beginning of the quarter are as listed below for the General College and the College of Arts and Sciences; the fees for those registering in the School of Commerce include, in addition to the following, a charge of $2.00 a quarter for special library, lecture, and reading materials.

Tuition (average charge, see note below)	$26.40
*Matriculation	20.00
**Student Publications	2.30
Laundry Deposit	8.50
Student Union Fee	1.00
Student Entertainment Fee	1.00
Total for each quarter	$59.20

* This fee includes fee for physical education, the library fee, the fee for infirmary service, the fee for registration costs, the fee for debates (.17), and membership fee in the Athletic Association ($3.33).

** This fee includes the following items: Daily Tar Heel $1.28, Yackety Yack .54, Buccaneer .23, and the Carolina Magazine .25.

NOTE: The tuition figure listed here is based on a standard load of 16 credit hours a quarter. In the three divisions indicated tuition is charged on the basis of the number of quarter hours the student carries, the rate being $1.65 a quarter hour for residents of North Carolina. Any variation above or below the standard load of 16 credit hours a quarter will raise or lower the tuition charge for that quarter. (There is no credit hour charge for physical education and hygiene.)

Tuition and Reciprocal Fee Rates for Out-of-State Residents

The amount of extra charge to each out-of-state resident is reciprocal; i.e., it is based upon the average of charges to non-residents attending similar institutions in the area of student's residence. The resulting rate of charge including tuition and reciprocal fee for out-of-state residents is as follows:

FOR RESIDENTS OF:

Alabama, Arkansas, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Mississippi, South Carolina, Tennessee, Virginia and West Virginia	$3.65
Arizona, New Mexico, Oklahoma, Texas	3.65
Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont	6.00
Indiana, Illinois, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin	3.65
California, Nevada, Oregon, Washington	3.65
Colorado, Idaho, Kansas, Montana, Nebraska, North Dakota, South Dakota, Utah, Wyoming	3.65
All other registrants	6.00

(The application of this scale of charges will in a standard program—16 credit hours—give a combined tuition and reciprocal fee figure of $58.40 or $96.00 depending upon the state of residence. The exact total tuition and fees chargeable to a particular out-of-state student may be reached by substituting for "tuition" in the charges listed above the correct combined tuition and reciprocal fee figure calculated according to the above quarter hour rate.)

All the above figures are exclusive of laboratory and other special fees.

Each application for admission to advanced standing must be accompanied by a fee of five dollars ($5.00) as an earnest of good faith. If the applicant is not accepted, the fee is returned; if he is accepted and enrolls as a student, the fee (having been deposited with the University Cashier) will be applied against

the bill at his first registration; if he is accepted but chooses not to enroll as a student, the fee will be forfeited regardless of the reasons involved.

DELAYED REGISTRATION: The penalty for delayed registration for any quarter is one month of strict attendance probation for each day of delay. Any student registering later than the time appointed for his registration must pay five dollars ($5.00) as an additional fee for delayed registration. *No appeal from either attendance probation or the late registration charge of five dollars will be granted, unless the delay is due to circumstances clearly beyond the student's control.* Such an appeal must be made in writing to the Dean of Administration, must show clearly, good and sufficient justification for the delay in registering, and must bear the approval of the Dean of the division of the University in which the appellant is enrolled.

LAUNDRY DEPOSIT: Students will be required to send their washing to the University Laundry for which a deposit will be collected at the time of registration. When the amount of the deposit has been exhausted, additional charges must be met. Any amount not used will be refunded at the close of the quarter, except that a minimum charge of twenty-five cents a week will be assessed each student not using the University Laundry facilities.

LABORATORY FEES: Each student taking a laboratory course must pay, in addition to his tuition fee, a small fee for power or materials used in the laboratory. The fees for the various laboratory courses are shown in connection with the descriptions of the courses.

TRANSCRIPTS OF RECORD: One transcript will be furnished without charge. Additional transcripts will be furnished only upon payment of $1.00 for each copy.

GRADUATION FEE: The graduation fee is $5.00, payable when application for the degree is made.

Dormitory Accommodations for Men

Accommodations for approximately nineteen hundred students are available in the University dormitories.

All rooms in the dormitories are completely furnished. Students will, however, provide their own pillows, bed linen (for single beds), blankets, and towels.

Room rent ranges from $5.50 to $15.00 a month for each occupant, the price depending upon the location of the room. This charge includes light, heat, and service. Rooms are leased for the scholastic year. See page 40 for assignment of rooms.

Dormitory Accommodations for Women

The Cornelia Phillips Spencer Building, the New Woman's Building, and Archer House are the residence halls for women. Other residence halls are under construction and should be completed by September, 1939. Spencer Hall and Archer House are reserved for undergraduates. The New Woman's Building may be occupied by both undergraduates and graduates. Women students not living in their own homes are required to reside in a dormitory unless permission to live elsewhere is granted by the Adviser to Women. Ordinarily such permission is granted in exceptional cases only.

Application for a room should be made to the Adviser of Women, and should be accompanied by a deposit of six dollars.

Rooms are rented upon the basis of the entire scholastic year of three quarters. Payment is made in three instalments which are due September first, January first, and March fifteenth. The amount of each instalment is determined by the annual rental price of the room and the length of each quarter. The room deposit of six dollars is not credited on the fall quarter instalment, but is credited on the winter and spring quarter instalments.

Residents of Spencer Hall are required to board there. Residents of the New Woman's Building are given preference for vacancies in Spencer Hall dining room, but are privileged to board at any of the available boarding places.

All rooms are completely furnished. Students are required to provide, however, pillows, bed linen (for single beds), blankets, and towels.

The cost of room and board and details concerning payments may be found in the Handbook for Women Students or by correspondence with Mrs. M. H. Stacy, Adviser to Women.

PECUNIARY AID

FELLOWSHIPS AND SCHOLARSHIPS

The Ledoux Fellowship in Chemistry. (Established in 1911 by Dr. Albert R. Ledoux). The holder is expected to devote himself to research in chemistry. This fellowship is endowed, and yields $300 annually.

The Graham Kenan Fellowship in Philosophy. (Established in 1921 by Mrs. Graham Kenan). A fellowship supported by the income from an endowment of twenty-five thousand dollars, in memory of an alumnus and trustee of the University. This fellowship is awarded annually by Professor Henry Horace Williams.

The Moore Scholarships. (Established in 1881). Bartholomew Figures Moore, of Raleigh, bequeathed $10,000, the interest of which shall be devoted to paying the tuition of students.

The Mary Ruffin Smith Scholarships. (Established 1885). Miss Mary Ruffin Smith bequeathed to the University in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land of 1,460 acres, known as Jones's Grove, in Chatham County. The will provides that rents of the land, or the interest on the purchase money if sold, shall be used to pay the tuition of such poor students as the Faculty shall appoint.

The Mary Ann Smith Scholarships. (Established in 1891). Miss Mary Ann Smith bequeathed $37,000 for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

The Cameron Scholarships. (Established in 1892). The heirs of Paul Carrington Cameron founded in his memory ten scholarships of the value of $75 each.

The Speight Scholarships. (Established in 1892). The late Mrs. Mary Shepherd Speight bequeathed $10,000 to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of professors.

The Wood Scholarship. (Established in 1892). Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of $75.

The Weil Scholarship. (Established in 1898). A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of $75.

The Armfield Scholarships. (Established in 1901 and 1904). These scholarships were founded by the generosity of the late Mr. Eugene M. Armfield, of High Point, N. C., a member of the class of 1888.

The Kenneth Murchison Scholarships. (Established in 1904). These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and the late Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

The Donald Fairfax Ray Scholarship. (Established in 1919). Mrs. N. W. Ray, of Fayetteville, N. C., has established this scholarship in memory of her son, Donald Fairfax Ray, a graduate of the University, who died while in the service of his country.

The Holt Scholarships. (Established in 1920). Four scholarships are maintained by the income from the Holt Loan Fund, established by Mr. Lawrence S. Holt, Jr. They are awarded by the Committee on the Holt Fund, to a member of each of the four classes in the Academic Department. Applications are considered after the opening of the University in the fall.

The Alumni Scholarships. These scholarships have been established by the gifts of Alumni, and they vary in stipends according to the funds in hand.

The R. H. Lewis Scholarships. Four scholarships, endowed by the University Gymnasium Association, and called The R. H. Lewis Scholarships, are assigned by the President, and are good for tuition in the Academic Department.

The Mrs. Augustus H. Jones Scholarship was created by a gift of two thousand dollars from Mrs. James H. Parker, of New York City, the income to be used for one scholarship. The recipient of this scholarship is to be designated by Mrs. James H. Parker during her life and thereafter upon the recommendation of the New York Chapter of the United Daughters of the Confederacy. Failing this recommendation from either source, appointment is to be made by the President of the University, preference being given first to relations of the late Dr. James H. Parker, of New York, and second to relations of the donor.

The George Newby Toms Scholarships. (Established 1926). Mr. C. W. Toms, in memory of his son, George Newby Toms, has granted the income from a fund of $5,000 as scholarships to worthy students, preference being given to students from Durham and Perquimans counties in North Carolina.

The Mary K. Brown Memorial Scholarship. This scholarship was established in 1931 by Mrs. James M. Brown in memory of her daughter who served with unusual devotion as secretary of the School of Commerce of the University for several years. This scholarship is awarded to a worthy student who is dependent upon his own efforts to secure an education.

The Joseph Lewis Graham Memorial Award. (Established in 1934). This award is made annually by Mr. John S. Graham of Winston-Salem in memory of his father, Mr. Joseph Lewis Graham, a business and civic leader in his community. The recipient of the award of $400 must be a rising senior in the School of Commerce who in the judgment of the staff of the school gives best promise of successful business leadership.

The General Robert Ransom Scholarship. This scholarship to the value of $200 is awarded each year to a lineal descendant of a Confederate Veteran. It is awarded and controlled by the United Daughters of the Confederacy in North Carolina.

The Jefferson Davis Essay Scholarship. Awarded each year by the United Daughters of the Confederacy in North Carolina to the high school graduate who writes the best essay on Jefferson Davis. Value $200.

William Blount Rodman Scholarships. Two scholarships assigned to students at the University from the memorial trust fund created by Colonel W. B. Rodman in memory of his father, William Blount Rodman. They are assigned by the State Superintendent of Public Instruction, Trustee of the fund.

The Daniel G. Fowle Scholarship. One scholarship, founded in 1928 by Mrs. Walter F. Stearns (Mary H. Fowle) in memory of her father, Governor Daniel G. Fowle. Mrs. Stearns reserves the right to award the scholarship to a member of her own family; otherwise it will be awarded by the Superintendent of the Raleigh Schools and the Principal of the Raleigh High School to one Raleigh student on the basis of merit, character, and scholarship. Value annually $100.

Class of 1913 Scholarship. (Established in 1938 by the Class of 1913). A scholarship fund of $600.00 contributed by members of the class as a gift to the University on the 25th anniversary of the graduation of the class. The fund is devoted to the maintenance of one scholarship, valued at $600.00 which is payable to the holder in four equal annual instalments. It is the hope of the Class of 1913 that succeeding quarter-century classes give similar amounts so that a similar scholarship can be awarded each year. The 1913 scholarship has been awarded to William L. McKinnon, Wadesboro, N. C.

THE MARK R. BRASWELL SCHOLARSHIPS. (Established in 1938). In memory of Dr. Mark R. Braswell, Class of 1888, of Rocky Mount, a fund of $20,000 has been created for the endowment of scholarships valued at $200.00 each to be awarded annually to entering freshmen by the Braswell Scholarship Committee. Four scholarships are awarded annually for a tenure of one year each. The Committee, in its discretion, may extend the tenure, thus enabling the award to be made to a previous holder. The basis of award is character, all-around development, high scholastic attainment, and financial need.

THE HERBERT WORTH JACKSON MEMORIAL SCHOLARSHIP. (Established in 1938). Endowed by Mrs. Annie H. Jackson of Richmond, Va., as a memorial to her husband, Herbert Worth Jackson, of the Class of 1886. The scholarship valued at $500.00 annually is awarded every fourth year, beginning with 1938 (i.e. 1942, 1946, 1950, etc.), to an entering freshman, who shall be a native-born resident of North Carolina and who shall be nominated by his high school or preparatory school as its candidate for the scholarship. One candidate only may be certified by each school to the University Scholarship Committee which in turn shall select from all boys thus certified twenty who shall come to Chapel Hill for interviews with the Jackson Scholarship Committee. The winner of the scholarship shall be announced by May 20. He shall have tenure of the scholarship for four years provided, in the opinion of the Committee, he maintains high standards both in morals and in scholarship. The basis of selection shall be high scholastic rank, character, qualities of leadership, achievements, physical health and vigor, and promise of future distinction.

BERNARD-GRAIL SCHOLARSHIPS. (Established in 1938). One or more scholarships of $75.00 each, maintained by interest from the Grail Loan Fund, will be awarded each fall to worthy and outstanding undergraduate students who have been enrolled in the University for at least two consecutive quarters immediately preceding the awarding of the scholarships. These scholarships are controlled by the Faculty Scholarship Committee, assisted by two members of the Order of the Grail. These scholarships were established in memory of Professor William Stanley Bernard who, as faculty adviser, was a source of inspiration and guidance to the Order of the Grail.

None of these scholarships is open to students in the Schools of Law, Medicine, Pharmacy, and Library Science. For scholarships open to students in these Schools, please see the special bulletins of the schools.

This list does not include certain annual contributions for scholarships, which are not on an endowment basis.

All applications for scholarships must be filed in the office of the Committee on Endowed Scholarships on or before April fifteenth, and must be in the regular form prescribed by the University. Blank forms are supplied on application to Mr. Edwin S. Lanier, Secretary.

FREE TUITION

Free tuition is given to indigent residents of North Carolina who are also under bodily infirmity.

LOAN FUNDS

The Deems Fund. (Established in 1879). A fund of $600 was established by Rev. Charles Force Deems, D.D., late pastor of the Church of the Strangers, New York City, formerly a professor in the University, in memory of his son, Lieut. Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt by a gift of $10,000 "as an addition to the Deems fund, to be loaned to indigent students of the University."

The Martin Fund. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of the fund can be used for loans. It became available during the session of 1908-1909.

The Hogue Fund. A fund of $4,000 has been established by the Rev. R. W. Hogue, of Baltimore, the income from which is to be loaned to worthy students in the University.

The Hewitt Fund. A fund of $18,700 was established in 1916 by the bequest of Mr. Joseph Henry Hewitt, of Princess Anne County, Virginia. Only the income from this fund can be used for loans to "needy and deserving students" of the University. This fund became available during the session of 1919-1920.

The Holt Fund. A fund of $10,000 has been established by Mr. Lawrence S. Holt, Jr., of Burlington. The principal of this fund is to be loaned to "worthy and needy students of the University." The income from this fund is to be used in establishing four scholarships in the University. It became available during the session of 1920-1921.

The Victor S. Bryant Fund. A fund of $7,500 has been established by the bequest of Mr. Victor S. Bryant, of Durham. The principal and the interest of this fund can be used for loans to "worthy and needy young men" at the University. This fund became available during the session of 1920-1921.

The Masonic Loan Fund. A fund of $1,250 has been established by the Grand Lodge of Masons, the Grand Chapter of

Royal Arch Masons, and the Grand Commandery of Knights Templar of North Carolina, for the purpose of "assisting worthy boys and girls to secure an education." The principal of this fund is loaned, and the interest is added thereto. The fund became available in the fall of 1922, and has since been increased.

THE SEELY FUND. A fund of $1,000 has been established by Mr. F. L. Seely, of Asheville, the principal of which is to be loaned to worthy and needy students, and the income therefrom to be added to the principal. This fund became available during the fall of 1922.

THE E. S. BLACKWOOD MEMORIAL LOAN FUND, created by bequest of Miss Katherine B. Blackwood, of New York City. This fund consists of $10,000 "to be used as a loan fund for needy students." This fund is administered in the same manner as the Deems fund.

THE A. B. ANDREWS LOAN FUND. In May, 1925, the five children of the late Colonel A. B. Andrews (William J. Andrews, class of 1891; Alexander B. Andrews, class of 1893; Mrs. W. M. Marks, John H. Andrews, class of 1897, and Graham H. Andrews, class of 1903) established a fund of $2,500 of which the principal and interest are to be loaned to worthy students. This fund has been increased to $4,500 through the subsequent gifts from Mr. Alexander B. Andrews, of Raleigh, N. C. The A. B. Andrews Loan Fund is administered as are other loan funds from the University and is established as a memorial to Colonel A. B. Andrews, a noted railroad builder in North Carolina and a Trustee of the University. It is requested by the donors that assistance from this fund be rendered first to students from those counties of North Carolina in which Colonel Andrews built railroads and second to those counties through which lines of the S. A. L., Norfolk-Southern, and Southern railway systems run.

THE J. E. LEAR FUND. This fund of $5,244 became available in 1924 as a fund upon which students of the School of Engineering, especially students in electrical engineering, would have first claim. The fund was the result of installation work done by the senior class in electrical engineering under the supervision of Professor J. E. Lear.

THE JOSEPH E. POGUE LOAN FUND. This fund of $1,000 was presented to the University in April, 1930, by Mrs. Joseph E. Pogue as a memorial to her husband, the late Mr. Joseph E. Pogue, the fund to be known as the Joseph E. Pogue Loan Fund. The principal and interest are to be loaned to deserving students.

THE EDMONDS LOAN FUND. This fund of a little over $800 has been set up by the Class of 1910 as a memorial to W. R. Edmonds, a member of that class.

GRAIL LOAN FUND. In June, 1930, the Order of the Grail, an undergraduate organization at The University of North Carolina, gave $1,400 to be known as the Grail Loan Fund. In 1938 the Grail made an additional gift of $900.00. The principal of this fund is loaned to worthy students and the income is used to support the Bernard-Grail Scholarships.

THE ALUMNI LOYALTY LOAN FUND. Established on June 30, 1930, by the advance of $12,200.00 out of the Alumni Loyalty Fund.

THE ALDEN JOSEPH BLETHEN III MEMORIAL LENDING FUND. During the fall of 1930, Col. C. B. Blethen, of Seattle, Wash., gave $2,000 to be known as the Alden Joseph Blethen III Memorial Lending Fund. This he did as a memorial to his son, A. J. Blethen III, a member of the Class of 1934. The principal of the fund is to be loaned to deserving students.

THE ROCKINGHAM COUNTY ALUMNI LOAN FUND. A fund of $713.32 advanced by the Rockingham County Alumni Association, available since January 11, 1932. It may be recalled by the lender as it may desire.

ESCHEATS FUND. According to State law, clerks of court are directed to forward to the University money included in estates for which no heir can be discovered. For these funds the University is merely custodian for a period of years during which any heir discovered may legally claim the funds. During this period the money is placed in the Student Loan Funds as a temporary investment.

THE CHARLES L. COON MEMORIAL LOAN FUND. A fund of $615.00 established by the administrators of the Charles L. Coon Memorial Loan Fund of Wilson, North Carolina, in September, 1934. The funds to be loaned to graduates of the Charles L. Coon High School of Wilson, North Carolina, upon the written approval of the Superintendent and the Chairman of the Board of Trustees of said high school.

THE JOHN B. WEAVER LOAN FUND. A fund of $1,125 established by Dr. William Jackson Weaver of Asheville, North Carolina, in memory of his father, John B. Weaver. This fund became available July 6, 1937, and is administered under the same terms and conditions as the Deems Fund.

The Emergency Student Loan Fund

In the winter and spring of 1932, the University confronted a genuine emergency growing out of an announced reduction of State appropriations by 30%, and the fact that between five hundred and seven hundred students were without funds with which to continue their course. When this situation was presented by President Graham, students ($2,057.14), faculty ($2,035.38), the people and community organizations of Chapel Hill ($970.22), various chapters of the D. A. R., U. D. C., and other committees of women, began building a student loan fund. Alumni and friends of the University everywhere contributed to raise the total of new loan resources to $109,000.00, known collectively as "The Emergency Student Loan Fund." The portions of that fund which for some appropriate reason were separately established are listed below. Unless otherwise indicated, the funds are loaned on the same terms as is the Deems Fund.

THE W. C. COKER LOAN FUND. A fund of $500.00 established February 2, 1932, by Dr. W. C. Coker, head of the Department of Botany of the University.

THE JESSIE KENAN WISE LOAN FUNDS. A loan fund of $25,000.00 established February 4, 1932, by Mrs. Jessie Kenan Wise, of Wilmington, N. C., and another loan fund of $47,000.00 in securities, the income from which may be loaned to students immediately, and the principal may be similarly used when available through the sale of the securities as opportunity for sale on favorable terms may arise.

THE BURTON CRAIGE LOAN FUND. A fund of $1,000.00 established February 6, 1932, by Mr. Burton Craige, 1897, of Winston-Salem, N. C.

THE JAMES A. GRAY LOAN FUND. A fund of $500.00 established February 15, 1932, by Mr. James A. Gray, '08, of Winston-Salem, N. C.

THE BLAIR LOAN FUND. A fund of $500.00 established March 2, 1932, by Col. David H. Blair, '98, and Mrs. David H. Blair, of Washington, D. C.

THE SARAH WATTS MORRISON LOAN FUND. A fund of $1,000.00 established March 4, 1932, by Mrs. Sarah Watts Morrison of Durham and Charlotte, N. C.

THE STUDENT LOAN FUND OF THE NORTH CAROLINA CONGRESS OF PARENTS AND TEACHERS, INC. A fund of $750.00 loaned to the student loan funds by Mrs. J. W. Burke, Treasurer, by authority of the organization named above.

THE SARAH GRAHAM KENAN LOAN FUND. A fund of $1,000 established March 7, 1932, by Mrs. Sarah G. Kenan, of Wilmington, N. C., to be used first by a designated student. When repaid, Mrs. Kenan will indicate its further usage.

THE MILO M. PENDLETON LOAN FUND. A fund of $1,000.00 established March 15, 1932, by Mrs. Katherine Pendleton Arrington as a memorial to her brother, Milo M. Pendleton, of the Pharmacy Class of 1902.

THE RICHMOND, VIRGINIA, ALUMNI ASSOCIATION LOAN FUND. A fund of $320.00 given by the organization named above with the request it be set so as to receive annual additions from the donors. It has been available since March 29, 1932.

THE LOAN FUND OF THE WOMAN'S AUXILIARY, N. C. PHARMACEUTICAL ASSOCIATION. A fund of $300.00 was established in 1932 by the above named organization for use by students of pharmacy. This fund has been increased to $500.00.

THE EDRINGTON SPENCER PENN AND CHARLES ASHBY PENN, JR., LOAN FUND. A fund of $1,000 established April 14, 1932, by Mrs. Charles Ashby Penn, of Reidsville, North Carolina.

THE C. W. TOMS LOAN FUND. A fund of $1,000.00 established May 19, 1932, by Mr. C. W. Toms, '89, of New York City, in memory of his son, the late George Newby Toms, '28.

THE MARGARET MCCAULL CARMICHAEL LOAN FUND. A fund of $1,000.00 established by Mr. W. D. Carmichael, '97, on May 25, 1932. Mr. Carmichael is a resident of Durham, N. C., and New York City.

THE JEFFERSON C. BYNUM MEMORIAL LOAN FUND. A trust fund established by Mrs. Jefferson C. Bynum in memory of her husband. The fund of $2,000.00 to be held in trust for the future education of her two sons, Jefferson C. Bynum, Jr., and Rufus S. Bynum. Pending the matriculation of the beneficiaries at the University, the fund may be loaned to University students.

THE ANNIE LOUISE WATTS HILL LOAN FUND. A fund of $1,000.00 established by Mr. John Sprunt Hill, of Durham, N. C., on June 4, 1932, as a memorial to his wife.

THE GEORGE BASLEY HISS LOAN FUND. A fund of $10,000.00 established by Mrs. Bertha T. Hiss, of Charlotte, N. C., in memory of her husband, George Basley Hiss. This fund has been available since June 30, 1932.

Applications for Loans

Applications for loans will be considered when made in person by students registered in the University. The funds are

limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest. Applications should be made to the Student Loan Fund office as far in advance as possible.

Self Help Work

Many students earn a part of their expenses by many forms of honorable labor. Students work in the Library, Dining Hall, Graham Memorial, Book Exchange, dormitories, Woollen Gymnasium, Kenan Stadium, Buildings Department, and other University divisions and offices. All jobs are assigned by the Self Help Committee, solely on the bases of scholastic merit, financial need, and good character. Holders of jobs are required to maintain a scholastic average of at least "C" from year to year. Jobs off the campus, in Chapel Hill homes and in business firms, are not assigned by any committee or division of the University. Such work is secured by the efforts of the student, the secretary of the Self Help Committee helping wherever possible. All inquiries about and application for work should be mailed to Mr. Edwin S. Lanier, Secretary, Self Help Committee, before July 1, after which the jobs are assigned.

REGULATIONS

SPECIAL NOTICE TO STUDENTS

This catalogue, issued in the spring of each year, is intended to give such a description of the work of the University and such a digest of its rules as are needed by the students. Neither the courses announced nor the rules given are valid beyond the succeeding year, for before the end of the succeeding year a new catalogue will have been issued, superseding all previous catalogues. Ordinarily a student may expect to be allowed to secure a degree in accordance with the requirements of the curriculum laid down in the catalogue in force when he first entered the University, or in any one subsequent catalogue published while he is a student; but the faculty reserves the right to make changes in curricula, as in rules, at any time when in its judgment such changes are for the best interests of the students and the University.

REGISTRATION

All students are expected to present themselves for registration *Wednesday or Thursday, September 13 or 14, 1939, between the hours of 9 a. m. and 5 p. m., at the places announced in the plan for registration. All men registering here for the first time will report for physical examination to the Infirmary; all women will consult Mrs. M. H. Stacy, Adviser to Women, in her office in the South Building, second floor. Bills for tuition and fees are payable at the time of registration. For the winter and spring quarters all students except those in the School of Law must register in December and March according to a schedule published immediately before the examinations for the fall and winter quarters begin.

Registration for credit for any course is limited to the first seven calendar days of a quarter, unless the late registration is approved by the instructor concerned, the Dean, and the Administrative Board (or the Special Faculty) of the school.

PAYMENT OF BILLS

Bills for the fall quarter are payable at the time of registration. Bills for the winter and spring quarters are payable at the Business office on the first class day of the quarter, and thereafter according to a schedule announced. Failure to pay or to make proper arrangements for payment results in the assessment of an extra fee of $5.00.

* Students transferring from other institutions should have transcripts of their former records sent at least two weeks in advance to the Dean of Admissions, and should present themselves for registration on Wednesday, September 13, 1939. Freshman students also will register on Wednesday, September 13.

DELAYED REGISTRATION

The penalty for delayed registration for any quarter is one month of strict attendance probation for each day of delay. Any student registering later than the time appointed for his registration must pay five dollars ($5.00) as an additional fee for delayed registration. *No appeal from the imposition of either attendance probation or the late registration charge of five dollars will be granted, unless the delay is due to circumstances clearly beyond the student's control.* Such appeals must be made in writing to the Dean of Administration, must show clearly good and sufficient justification for the delay in registering, and must bear the approval of the Dean of the division of the University in which the appellant is enrolled.

ARRANGEMENT OF COURSES

Attention is called to the reduction of credit for freshman and sophomore courses when taken late in the student's career. Only half credit is allowed if a regular freshman course is taken after a student begins his seventh quarter or if a regular sophomore course is taken after he begins his tenth quarter.

No student will be allowed without the permission of his Dean to take fewer than fifteen credit hours a week. A load up to eighteen credit hours a week may be taken without any restrictions; one of nineteen or twenty credit hours a week requires a scholastic average of at least C in the preceding quarter; one of twenty-one or more credit hours a week requires a scholastic average of at least B in the preceding quarter and the approval of the student's Dean.

A student desiring to change his courses must make written application to his Dean for the desired changes. The application will be considered by the Dean and will be granted only after a careful consideration of the facts in each case. The written permission of the Dean must be presented at the Central Office of Records, room 207, the South Building, and payment must be made of the fee of twenty-five cents for each item of change. *Changes in registration are limited to the first seven calendar days of a quarter.*

ASSIGNMENT OF ROOMS

The rooms in the University dormitories are assigned to students by the Cashier in the order of application, subject to the special regulations given below.

The University reserves the right to require any student whom for any reason it considers an undesirable tenant to vacate a room in the University dormitories.

In order to retain his room for the next scholastic year, a student must file with the Cashier before May 25 an application and a deposit of $6.00 as an option. Double rooms must be applied for by both intending occupants. The rooms thus applied for will be retained until September 1, when first payment of rent is due. The option deposit will be forfeited in case the applicant does not himself occupy the room and pay the rent. Rooms not applied for or made vacant by failure to pay at the proper date will be assigned in the order of application. The rent is payable in three installments, due September 1, January 1, and March 15.

The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of an occupant of a room to sell or transfer his right to occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be the forfeiture of the room by the new lessee.

The occupant of a room will be held directly responsible for any damage done to the furniture in his room or to the room.

No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

CONDUCT

By order of the Board of Trustees the Faculty is directed to discipline or dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form (presence at hazing is regarded as participation), or to be guilty of dissolute conduct. See also Student Government, page 17.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism may be required to leave the University.

Students, unless *bona fide* residents of Chapel Hill, when suspended from the University for disciplinary reasons, must leave the campus and Chapel Hill within forty-eight (48) hours or forfeit the right to readmission at any time.

ATTENDANCE

Due to the policy under which courses are given in the University, namely lectures, daily work, quizzes, and short final examinations, regular attendance upon meetings of classes is considered very important and is considered a student obligation.

Beginning with the spring quarter, 1936, the responsibility for attendance was placed in the hands of the instructors in the various courses. Departments may make uniform regulations governing attendance if they so desire.

Instructors in all cases are expected to keep a daily record of attendance and to report to the Central Office of Records the name of any student who has been absent three consecutive meetings of a class.

Instructors are expected to warn a student who has been absent more than seems reasonable. Further absences give instructors the right to request the Dean concerned to exclude such a student from the class. If the Dean knows extenuating circumstances he must confer with the instructor before the student is actually excluded.

Any student who has attained the honor roll during two successive quarters shall be exempt during the ensuing quarter from the regulations governing absences and shall be exempt thereafter as long as that student maintains the honor roll average. To the foregoing regulations there are to be the following exceptions: (a) the privilege of absences does not apply to requirements of attendance relative to written or laboratory work or to quizzes and examinations; (b) the privilege earned by the student shall be forfeited if that student is absent without excuse immediately before or immediately after holidays.

Departments or instructors may, on occasion, permit a student to attend or engage in an educational activity other than that of the class as a substitute for class attendance.

The Deans are expected to use their best judgment in the matter of allowing a student to remain in residence after having been dropped from one or more classes. The Deans will also cooperate with the instructors in bringing students to a realization of the consequences of excessive absences.

It is the duty of instructors to report to the Central Office of Records all absences occurring at the *beginning of each quarter and all those occurring immediately before and immediately after holidays. The penalty for such absences is loss of membership in the student body. Favorable action (for good cause) by the Committee of Deans is necessary before the student may be reinstated in the University; moreover a fee of $2.50 is charged the student for each such absence, with the proviso that the total fee shall not exceed $7.50.

Absences from class attendance for cause may be excused. Such absences are those due (a) **to participation in recognized University activities, as those of the Glee Club, Debating and Athletic teams, and the Playmakers when occurring away from Chapel Hill, such excuses to be issued by the Recorder; (b) ***those due to actual illness, certified to by the physician who attended the student in person during illness; and (c) **those

* The Departments are expected to cooperate with the Deans in getting classes accurately organized by remaining on duty the whole day for the first few days of each quarter.

** Such authorized leaves of absence must be secured in advance.

*** Excuses for illness must be reported within forty-eight hours from time of the beginning of the illness.

due to emergencies caused by extraordinary circumstances, when excused by the Dean of the School concerned.

The Central Office of Records will furnish to the student upon request and for the information of his instructors a record of days he has been excused.

Any student who is absent from a quiz or an examination at the appointed time thereof without excuse as defined above will not be permitted to make up this quiz or examination. Any department may impose a fee not exceeding one dollar ($1.00) upon the student having excuse for such absence for the privilege of taking a special quiz or examination or a make-up laboratory exercise.

No student unless exempted by having attained the honor roll privileges of optional attendance shall be given credit in the University for any course unless that student has attended at least 75 per cent of the class meetings of the course during the quarter in which it has been taken by him.

Departments may require students who have been absent, whether the absences are excused or not, to make up work covered during the periods of absence.

Other Regulations Governing Attendance

The grade of a student who quits a course without the permission of the Dean of his College or School is recorded officially as **F**.

The grade of a student who drops or is dropped from a course in which he is failing at that time shall be recorded as **F**, unless, in the judgment of his Dean, the reason for his failure be circumstances clearly beyond his control.

No student is allowed to absent himself from the University without written permission as provided above. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

EXAMINATIONS

Regular written examinations are required at the end of each quarter in all courses except those the nature of which is such as to make written examinations unnecessary. Approval of such exceptions must be secured in advance from the Dean of the College.

Before receiving his degree each senior in the College of Arts and Sciences or in the School of Commerce is required to pass to the satisfaction of his major department an examination in the field of his major study. Such a comprehensive examination may be taken by a student only once in any one quarter and

may not be taken until the student has completed at least two-thirds of the work required for the major. This rule became effective with the class receiving degrees in June, 1930.

A special examination may be taken by a student, who has received the condition grade (E), at the period of the special examinations in September. Provided he has no conflict with a course regularly taken by him in the quarter, such a student may take the examination with the class in the same subject at any regular quarter examination within a year after he has made the grade E. A senior who makes a grade of E in his last quarter of residence is allowed to take a special examination for removal of the E not earlier than three days after his last examination in that period of examinations. The grade E becomes F if the student fails to pass the reexamination whether taken in September or at a regular period.

Under no circumstances may a student stand a special examination to remove a condition grade (E) between the first and the last class days in any quarter unless such examination is requested by the Committee of Deans.

Special examinations for students who have been officially excused from regular examinations on account of sickness or have been absent on account of some necessary cause may be held at suitable times fixed by the Recorder and the instructors concerned. Such examinations must be taken within twelve (12) months of the date of absence.

To be entitled to take a special examination within a quarter, or at the September period, or at a regular quarter examination period, the student is required to file with the Recorder at least one week prior to the time for the examination a written notice that he desires to take such examination.

Final examinations except in laboratory practice may not be held at any times other than those specified in the preceding regulations.

No examinations may be held later than 6:30 p. m.

All examinations must be held in Chapel Hill.

Examinations should be limited to a period of two hours. In courses in which a considerable portion of the examination is of a *practical* nature the instructor may extend the time in his discretion.

No students other than the following may take the examination in any course: 1st—regularly enrolled members of the class whose names have been reported from the Recorder's office to the instructor as having registered in due form for the course; and 2nd—those whose names have been reported from the Recorder's office as having the right to take special examinations on that course.

Students absent from an examination without an official excuse or present and failing to submit examination papers are reported "absent." This mark is equivalent in every respect to grade F or failure, and is so recorded in the office of the Recorder.

Each student is required to subscribe his name to the following pledge or its equivalent on every paper: "I hereby certify that during this examination I have neither given nor received aid." The instructor should not report a grade for any student whose examination paper lacks this pledge.

Papers handed in at a special examination by students who have been officially excused from the regular examination will be graded; all others will be marked "passed" or "failed."

Schedules of examinations at the ends of the terms and in September are to be so arranged that examinations set for the last day of the period shall be set for the first day of the next period.

The order of examinations for the removal of conditions in September, 1939, will be as follows:

Monday, September 11

8:30 a. m.	Education	11:00 a. m.	Geology
	English		Psychology
	German		Rur. Economics
2:00 p. m.	Compar. Literature	4:30 p. m.	Botany
	Greek		Latin
	Physics		
	Sociology		

Tuesday, September 12

8:30 a. m.	Chemistry	11:00 a. m.	Music
	Commerce		History
	Philosophy		Mathematics
			Polit. Science
2:00 p. m.	Economics		
	Romance Languages		
	Zoology		

STANDING

After the close of each quarter reports of the standing of all students in all their studies are sent to parents or guardians. The reports are based upon the following system of marking:

Grade A, Excellent.	Grade D, Barely passed.
Grade B, Good.	Grade E, Conditioned.
Grade C, Fair.	Grade F, Failed.

*Grade I, Work incomplete.

* The grade I may be converted into one of the other grades by completing within a period of twelve months such additional assignments as may be required by the instructor in the course. A grade of I not so converted becomes F.

When a student has shown marked deficiency in the use of English in any course, his grade in that course may have attached a "composition condition" (cc). This condition, while not affecting a student's eligibility for continuance in the University, must be removed before final credit will be allowed. Such conditions may be removed by complying with the regulations of the Committee on English Composition of which Dr. J. O. Bailey is Secretary.

A student must attain a grade of D to pass in any study, Grade E indicates that the student is conditioned but may remove the deficiency by special examination as explained above. Students receiving grade F must repeat the study to receive any credit for the same.

Any student, after conference with the instructor concerned, may appeal from a course grade provided the appeal is presented in writing to the Dean of Administration within thirty regular college days after the grade has been recorded. The Dean of Administration, after bringing the appeal to the attention of the head of the department concerned, will refer it to the Administrative Board of the College or School in which the student is enrolled. The Board's decision shall be final.

To be eligible for graduation a student must secure the grade of C or higher on at least half of his work.

Interpretation of this ruling:

(1) A student who completes the required courses but with grades which do not entitle him to his degree will be allowed to take additional junior-senior courses until such time as he meets the requirement of the rule.

(2) Transfers with advanced standing will come under this rule only for those courses pursued at this institution; but it is expected that at least 50% of the work offered for advanced credit shall be of grade C (one degree above the passing mark) or better.

A student to be ranked as a Sophomore must have passed at least thirty-six quarter hours; to be ranked as a Junior, at least seventy-eight quarter hours; to be ranked as a Senior, at least one hundred thirty-six quarter hours.

Undergraduate students, in order to be eligible to continue in the University, must qualify according to the following requirements: A freshman must pass some *academic work in each quarter, and a total of at least thirty quarter hours before beginning his fourth quarter. After the freshman year (three quarters) a student must pass at least ten hours each quarter. Ineligi-

* For the purpose of this rule freshman courses in hygiene and physical education are not included in "academic work," but they may be counted in the total of thirty quarter hours required in three quarters. In case a freshman is exempt from the requirements of physical exercise, the number thirty is reduced by one quarter hour for each quarter he is exempt.

ble persons are not to be considered members of the University. In case a student has been handicapped by circumstances beyond his control, he may appeal for readmission to the Committee of Deans by means of a written petition stating his case and sent to the Registrar's office. Deficiencies may be made up by correspondence work or in the summer session, in which case only credits exceeding five hours credit so obtained shall count for readmission. In three quarters, therefore, a freshman must pass at least thirty hours, or thirty-five if he is making up a shortage by correspondence work or in the summer session; and one above freshman year similarly must pass at least thirty hours or thirty-five if he is making good a deficiency by correspondence work or in the summer session.

No student who fails to qualify under the above regulations may be readmitted to *any division* of the University except by a special vote of the faculty or a delegated committee of the faculty. This delegated committee of the faculty will meet at 10:00 a.m. on the *last* Saturday in July, at 10:00 a.m. on the second day *before* the stated registration day at the opening of each quarter, and at 2:30 p.m. on the second day *after* the stated registration day at the opening of each quarter to consider written petitions of students who have definite and convincing reasons on which to base a request that the rule be waived. All petitions, except those of students in Law, Medicine, and Pharmacy, should be sent to the Registrar *in writing* and, to be considered, must be in hand *before* the stated meetings for that quarter in which the student seeks readmission. *Notice is given that the rule may be waived only once for any individual.*

WITHDRAWALS

If a student wishes to withdraw at any time other than the end of a quarter, a formal withdrawal, which is prerequisite to honorable dismissal or reentrance to this institution, must be approved by the Dean to be valid. Such a withdrawal will be approved only after full investigation of the circumstances and after the lapse of twenty-four hours from the time the first application is filed with the Dean. The withdrawal form after approval by the Dean must be filed promptly with the Recorder in room 207, the South Building.

If a student withdraws after the mid-term and is reported as below passing in two or more courses, that quarter will be counted as a quarter in residence in all computations of his requirements for readmission. If a student withdraws before mid-term, it will be left to the discretion of the Dean as to whether or not that quarter is to be counted as a quarter in residence. The Dean's verdict will be indicated specifically on the form used for withdrawal.

GRADUATION

Each senior will be officially informed by his Dean in September of all deficiencies standing against him.

FRATERNITIES

GENERAL REGULATIONS. Students may join fraternities after registration at the opening of any quarter or term provided they are eligible under the special regulations of the Faculty. Before a fraternity may initiate a pledge it must make written inquiry of the Assistant Registrar as to the eligibility of such pledge and must secure a written certificate of eligibility. Pledging of a student to join a fraternity is not allowed until he has been in the University a specified length of time as follows: If he matriculates for the first time in the University in the summer session or in the fall quarter, he may not be pledged until the regular pledge date for the fall quarter; if in the winter quarter, until a similar date in that quarter; if in the spring quarter, until a similar date in that quarter. No student may be pledged during the summer session, but, if a student remains in the summer session for the full twelve weeks, it may be counted for him as a regular quarter towards meeting the requirements as to residence. A student entering the University with advanced standing, whether he enters an academic or a professional school, may not be pledged until the regular pledge date after the date of his matriculation in this institution; but in no case may a student be pledged during the summer session.

TRANSCRIPTS OF RECORD

Honorable dismissal has reference to conduct and character only. It will not be granted unless the student's standing as to conduct and character is such as to entitle him to continue in this University. Furthermore, in every statement of honorable dismissal full mention will be made of any probation, suspension, or other temporary restriction imposed for bad conduct which is still in force when the papers of dismissal are issued.

Statement of record has reference to the recorded results of a student's work in the classroom. It will in every instance contain all the important facts pertaining to the student's admission, classification, and scholarship. In particular, no partial or incomplete scholastic record (for example, with failures omitted) will be given without clear evidence that it is partial or incomplete. If the student's scholarship has been such as to prevent his continuance in this University or to render him subject to any probation, suspension, or other temporary restriction which is still in force at the date of the record, a plain statement of any and all such facts will be included. Such information will be

given as will make clear the system of grades employed, the number of exercises a week devoted to each course, etc.

Transcripts of record, except the first which is furnished without cost, will be made upon payment of one dollar ($1.00) for each copy desired.

INTERCOLLEGIATE ATHLETICS

The University is a member of the Southern Conference and its rules necessarily conform to the rules of the Conference. With the exception of minor regulations the rules of the Southern Conference at the present time are as follows:

ARTICLE VII. RULES OF ELIGIBILITY APPLICABLE TO ALL SPORTS.

RULE 1. *Bona Fide Students.* All regularly matriculated students of a member institution, which holds membership in its regional educational association, shall be eligible for participation in intercollegiate athletics, except as hereinafter provided.

RULE 2. *Academic Proficiency.* (a) Participation in intercollegiate athletics by a graduate student, or a student enrolled in a school of law or medicine, shall be predicated upon a statement from the dean of said graduate or professional school that the student's academic record is satisfactory.

(b) No undergraduate student shall be eligible for varsity athletics until he has passed twenty-four (24) semester-hours or thirty-six (36) quarter-hours. After an undergraduate student has become eligible for athletics, he must, to be eligible for any ensuing year, have passed twenty-four (24) semester-hours or thirty-six (36) quarter-hours of the previous year—provided, however, that hours for the second and third quarters or second semester shall be regulated by the separate institutions.

For the purpose of the academic requirement, the previous year means the preceding two semesters of residence or the preceding three quarters of residence—work taken in summer schools to count in this connection.

RULE 3. *One-Year Residence Rule.* No student shall participate in varsity athletics in any member institution until after the expiration of twelve months from the date of his matriculation there and until he has been in residence there one full academic year.

RULE 4. *Returned Students Formerly Enrolled.* No student having been a member of any athletic team of his college during any year and having been in attendance less than one semester or two quarters shall be permitted to participate in any intercollegiate contest thereafter until he shall have been in attendance one semester or two quarters of his next academic year.

RULE 5. *Special Students.* No special student is eligible to participate in freshman or varsity inter-collegiate athletics.

RULE 6. *Transfer Students.* (a) Transfer students are eligible for varsity athletics only after they have met the requirements of the One-Year Residence Rule, and then only in those sports in which they did not participate in an inter-collegiate contest, freshman or varsity, in the college or colleges from which they transfer.

(b) Transfer students who are graduates of junior colleges, normal schools, or other institutions, which are accredited as such by the regional educational accrediting associations*, not offering a standard four-year course, may be permitted to engage in varsity athletics immediately; others who are not graduates of such accredited junior colleges, etc., must comply with the One-Year Residence Rule and the five-year Limit of Participation Rule dating from the time of first matriculation in the said junior college, etc.

(c) Students who have been in the preparatory department of a junior college, who have taken no college work but have played on the junior college teams shall not be eligible for freshman participation at Conference institutions.

RULE 7. *Limit of Participation.* Participation in inter-collegiate athletics shall be limited to one freshman and three varsity years over a period of five consecutive years counting from the date of first matriculation.

RULE 8. *Freshman Teams.* Freshman teams shall be composed of members of the freshman class only who shall not compete as such for more than one year, and shall be eligible under the rules of this Conference, except the One-Year Residence Rule.

No freshman who has been a student at any other college shall be eligible to compete on a freshman team of a Southern Conference institution.

RULE 9. *Compensation.* (a) No person who receives any compensation from his institution for services rendered by way of regular instruction shall be allowed to participate in any inter-collegiate contest.

(b) No person shall be permitted to participate in any inter-collegiate contest who has ever used his knowledge of athletics or his athletic or gymnastic skill for pecuniary gain; a specific exception is made in the case of any student who has worked in connection with a playground or a summer camp where the requirements do not call for a man with technical preparation in physical training.

* For this region the Southern Association of Colleges and Secondary Schools is the agency.

RULE 10. *Professionalism.* Any college athlete who signs a contract or enters into any agreement, explicit or implicit, with a professional team shall not be eligible for inter-collegiate athletics.

No student who has played on a baseball team recognized by the National Commission of Baseball Clubs shall be eligible for inter-collegiate athletics.

RULE 11. *Outside Participation.* (a) A student who, while the college is in session, plays on an athletic team other than that of his college, becomes ineligible for inter-collegiate contests in the sport or sports concerned for one year from the date of the infraction of this rule.

(b) No student who participates in a boxing match where spectators pay for admission, directly or indirectly, except as the representative of the institution in which he is enrolled, shall be eligible for inter-collegiate athletics—National Championship Olympic Tryouts and Olympic Games being excepted from this provision.

(c) No athlete who has received compensation of any kind, including money for expenses, for participating in a boxing match shall be eligible for inter-collegiate boxing.

RULE 12. *Eligibility Certificates.* Before any student can compete in any inter-collegiate contest he must fill out an eligibility blank furnished by the Conference which blank shall be kept on file by the Faculty Chairman of Athletics and a copy sent to the President of the Southern Conference.

RULE 13. *Scholarships, Jobs, Subsidization, Athletic Staff, and Audit.*

SECTION I. It has been and is an accepted part of the provisions of all inter-collegiate athletic conferences that an athlete may be awarded a scholarship, loan, job, or other financial aid on his merits as a person and student on the same basis as other students. The Southern Conference pledges itself to support this policy and holds that member institutions must accept the responsibility for the proper conduct of inter-collegiate athletics in their respective institutions.

Any scholarship, loan, job, remission of charge, financial aid, or other material considerations within the direct control of the institution, to be open to an athlete must fulfill the following requirements:

(1) Be awarded on the basis of character, scholarship, financial need, competence for any specific task, and general merit.

(2) Be awarded only by a representative and responsible faculty committee, or committees, in the respective fields of scholarships, loans, and jobs.

SECTION II. a. No student who is on scholastic or conduct probation or its equivalent is eligible to represent the institution in an inter-collegiate contest.

b. All these scholarship requirements shall in advance of competition be certified to by the appropriate officer as fulfilled by all members of the team representing the institution.

SECTION III. a. No member of the athletic staff or physical education department shall receive for his instructional services at his college any money or other valuable consideration except through the college authorities.

b. The athletic director and coaches shall be chosen and their salaries fixed by the president or on the recommendation of the president by the board of control (e. g. trustees, regents, visitors) according to the custom of the institution.

SECTION IV. All questions of eligibility involving either the letter or the spirit of the Conference rules shall be treated as matters of confidence between the institutions concerned.

SECTION V. All athletic accounts shall be audited regularly by an auditor appointed by the president of the institution and be open for inspection by officials whose names appear in the current printed Constitution and By-Laws of the Southern Conference.

Special Rules of the University of North Carolina

In addition to the rules of the Southern Conference the following local rules apply to all students participating in inter-collegiate athletics:

1. No student will be allowed to take part in athletic contests entailing absence from the University whose parents (or guardian) object to such participation.

2. There shall be a scholastic requirement of thirty-six (36) quarter hours, half C grade or better, during the preceding three quarters of residence, or forty (40) quarter hours, half C grade or better, if summer school or correspondence work is necessary in addition to three regular quarters.

3. No student shall play upon any athletic team except after physical examination by the University Physician.

4. Before any student can become a member or a substitute member of any athletic team of the University and take part in any inter-collegiate contest he must make application to the Faculty Committee on Athletics and secure the endorsed approval of that committee on his application. It shall be the duty of the Faculty Committee on Athletics to have the Registrar of the University indorse such application to the effect that the

applicant is a registered student of the University and has completed the scholastic requirements.

5. The faculty regards the professionalization of college athletics as a menace to sound education and wholesome sportsmanship. In line with this belief alumni and friends of the University are urged to submit to responsible committees of the faculty for approval under their regular standards any assistance extended or proposed to be extended to athletes or prospective athletes.

6. To be eligible for inter-collegiate athletics in any quarter a student must have passed during his preceding quarter at least 10 quarter hours or the equivalent.

7. No student shall be allowed to participate in preliminary training, before the opening of the University in the fall who is at the time ineligible to enter the University.

REGULATIONS GOVERNING DRAMATIC, MUSICAL, DEBATING, AND SIMILAR ORGANIZATIONS

1. No student will be allowed to take part in dramatic, musical, debating, oratorical, or similar events entailing absence from the University whose parents (or guardian) object to such participation.

2. Any student who was in attendance at the University during a previous quarter must have passed, during his last quarter of attendance, satisfactory examinations upon at least ten quarter hours or their equivalent, before he will be allowed to represent the University in any dramatic, musical, debating, oratorical, or similar event of a public nature.

3. Any student reported during the course of any quarter as deficient in a majority of his classes may be prohibited by the Dean of his school from participating in any dramatic, musical, debating, oratorical, or similar event until such deficiency is made good.

4. There shall be a scholastic requirement of thirty-six (36) quarter hours, half C grade or better, during the preceding three quarters of residence, or forty (40) quarter hours, half C grade or better, if summer school or correspondence work is necessary in addition to three regular quarters.

PART THREE—THE COLLEGES AND THE SCHOOL OF COMMERCE

THE GENERAL COLLEGE

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., D.Litt, *President of the Consolidated University*
ROBERT BURTON HOUSE, A.M., *Dean of Administration*
CORYDON PERRY SPRUILL, JR., A.B., B.Litt. (Oxon.), *Dean*

*THE ADMINISTRATIVE BOARD

ALLAN WILSON HOBBS, Ph.D.
DUDLEY DEWITT CARROLL, M.A.
FRANCIS FOSTER BRADSHAW, Ph.D.
STURGIS ELLENO LEAVITT, Ph.D.
ARTHUR MELVILLE JORDAN, Ph.D.
ARTHUR PALMER HUDSON, Ph.D.
CHARLES BASKERVILLE ROBSON, Ph.D.
EDWIN CARLYLE MARKHAM, Ph.D.
OLIVER KELLY CORNWELL, M.A.
HENRY ROLAND TOTTEN, Ph.D.

**THE COMMITTEE OF ADVISERS IN THE GENERAL COLLEGE

GUY BERRYMAN PHILLIPS, A.B.
MICHAEL ARENDELL HILL, JR., A.M.
CECIL JOHNSON, Ph.D.
SHIPP GILLESPIE SANDERS, A.M.
JOHN WARFIELD HUDDLE, Ph.D.
WILLIAM SMITH WELLS, Ph.D.
WILLIAM DECATUR PERRY, D.Ed.
BEN HUSBANDS, A.B.
LEE ROY WELLS ARMSTRONG, A.B.
SAMUEL THOMAS EMORY, M.A.

GENERAL STATEMENT

During his first two years in the University at Chapel Hill every student is a member of the General College unless he enters the School of Pharmacy. The studies in the General College are intended: (1) to offer an experience in a sufficient variety of basic and liberal subjects to constitute the foundations of that general education which is regarded as essential to balanced development and intelligent citizenship, (2) to supply opportunities for the discovery of intellectual interests and occupational aptitudes, and (3) to provide preparation for later collegiate or professional training. These studies are, specifically, English composition and literature, a foreign language, natural science, and social science for two years, mathematics or Latin or Greek for one year, and one other prescribed or elective sub-

* The Dean of Administration and the Registrar are *ex officio* members of this Administrative Board.
** The Advisers are *ex officio* members of the Administrative Board.

ject for one year. The options within these requirements appear below in the summaries of the several programs. The student thus takes certain courses basic to all programs of study and in addition chooses other courses in anticipation of advanced work in special fields or because of other personal considerations. If he knows what his later program of study is to be he can in nearly all cases choose a subject in that field as part of his work in the General College. If he does not know what his program is to be, he may take the general program leading to the degree in Liberal Arts or in Commerce with the assurance that he can reach a decision during his undergraduate career and make necessary changes with a minimal loss of time.

The members of the General College are of four distinguishable but overlapping types: (1) Those who will proceed to the usual academic degrees at the end of four years, (2) those who will enter professional schools after three or four years, (3) those who are preparing for *teaching or scientific investigation or both, (4) those who will take less than a complete academic program. Through the Advisers the General College attempts to assist each student in appraising his qualifications and objectives and, within the limits set by its standards and resources, undertakes to adapt its offerings to his interests and needs. Thus a deficiency in a foreign language may be overcome by taking the elementary course which meets six times a week. In the converse case of mastery in preparatory school or otherwise of work offered in college, the student is encouraged to meet the collegiate requirement by examination. Those who have responsibilities which limit the time available for studies are allowed to take less than the normal academic program. Those who attain distinction in the normal registration are permitted to take additional courses so as to enable them to enrich their programs or to graduate at an earlier date. By such means the College encourages each student to start with the work which he is prepared to do and to go forward with it in the way that is most appropriate in his individual case.

Upon satisfactory completion of the work of the General College, the student will normally enter one of the divisions of the University which administer the curricula of the junior and senior years. *The College of Arts and Sciences* offers curricula in (1) the usual liberal arts subjects, (2) teacher-training, (3) journalism, (4) chemistry, geology, physics, and medicine (each with its special Bachelor of Science degree), and (5) pre-law, pre-medical, and pre-dental programs, with and without the A.B. degree. *The School of Commerce* presents curricula pre-

* Anyone who plans to prepare for teaching should immediately consult with the Chairman of the Division of Teacher Training.

paratory for the various careers in (1) business, (2) foreign trade and the consular service, and (3) law.

Office of Pre-College Guidance

The Office of Pre-College Guidance, as a part of the General College, seeks to supply high school students with information about the conditions of university life; but inquiries concerning and applications for admission should be addressed to the Associate Registrar of the University. The staff of the Office welcomes personal conferences with prospective college students.

ADMISSION TO THE GENERAL COLLEGE

WOMEN: By order of the Board of Trustees women are not eligible for admission to the General College.

AGE: All applicants for admission to the General College must be sixteen years of age before or by the actual date of their first registration.

CHARACTER: All applicants for admission to the University, including the General College, are required to furnish satisfactory evidence of good character as prerequisite to consideration for admission.

HEALTH: All General College registrants are required to report to the University Physician for a physical examination immediately before the period of their first registration. Trustee regulations make it mandatory that all matriculates satisfy the University Physician that they have been successfully vaccinated against smallpox. Those unable to furnish such evidence, or who have never been vaccinated at all, will be vaccinated here. Since a smallpox vaccination sometimes disrupts one's normal activities for several days, it is highly desirable from the applicant's standpoint that this detail be attended to before he presents himself for registration.

Admission to Freshman Standing

BY CERTIFICATE: Formal application for admission to freshman standing, which is generally understood to mean candidacy for a baccalaureate degree, is made by submitting 1) personal data called for on an application form, and 2) a satisfactory statement of high or preparatory school achievement. Such a statement is expected to show 1) the completion of an accredited four-year high or preparatory school course, or its equivalent, which ordinarily means graduation; 2) fifteen units acceptable to us, including our minimal requirements as outlined below; and 3) that the applicant has attained the certifying average of the school last attended. Application-for-admission blanks may be secured by writing the Associate Registrar who, upon approving one's application, will undertake to secure directly from the proper official of the school graduating the applicant an appropriate certification of the applicant's record. Satisfactory evidence of one's eligibility for admission should be in the hands of the Associate Registrar at least fifteen days before the opening of the quarter in which it is desired to enroll.

Since the University operates on a selective admissions basis in so far as non-North Carolina citizens are concerned, the above paragraph having to do with admission to freshman standing by

certificate should be supplemented as follows: in addition to the above stated requirements, the procedure involves the writing of a scholastic aptitude, or psychological, test *and* a personal conference between a representative of the University and each candidate for admission. Exceptional circumstances now and again make it advisable to waive these additional requisites in the case of out-of-state candidates, but such circumstances do not often prevail. Information covering these additional requirements will be gladly furnished to interested persons upon request.

Summary of Admission Units

The fifteen-unit minimum offered for admission should include the following *required* distribution, except as may be provided for in the explanatory notes appearing immediately after the section headed *Admission by Examination*:

English (four years)	4	units
Algebra (one and one-half years)	1½	units
Plane Geometry (one year)	1	unit
Foreign Language (two years in *one* language)	2	units
*Social Science (one year)	1	unit
Natural Science (one year with laboratory)	1	unit
Electives	4½	units

ELECTIVES: It is strongly urged and recommended that elective units be made up from the fields of mathematics (second-year algebra for a full year, solid geometry for a half year, and plane trigonometry for a half year), social science (ancient history, mediaeval and modern history, modern history, English history, American history, American history and civics as a combination, civics, sociology, and economics), foreign language (Spanish, German, French, Latin, and Greek, with not fewer than two units in any one), and science with full laboratory (chemistry, physics, biology, botany, zoology, geology, physiography, and general science). One unit is allowed for a full year's work in any one of the named sciences, provided lectures or recitations *and* laboratory work are involved; if no laboratory work is included, any one of the named sciences, taken for a full year, carries only a half unit credit. *A credit of less than a half unit will not be allowed in any subject.*

In addition to credits from the fields specified immediately above, an applicant may offer subjects that are vocational in nature. Ordinarily no more than three units in vocational work may be credited; but the officer of admissions may, in his discretion, allow credit to the extent of four vocational units. It must in every instance be evident that such credits have been counted towards the high or preparatory school diploma. The officer of

* Preferably History of the United States.

admissions has been granted discretionary authority to determine what may or may not be acceptable.

For certain curricula the requirement in foreign language is more precise than may be apparent from the statements made above. The courses of study leading to the following degrees require the language indicated: S.B. in Commerce and S.B. in Geology, Spanish or German or French; S.B. in Medicine, German or French; S.B. in Chemistry, German; and S.B. in Physics, German or French. It should be remembered that the *general entrance requirement* in foreign language may be satisfied by a two-unit offering in Latin or Greek, but that at the beginning of a student's first year in residence he will be required to take up that language which is appropriate for the study program of his junior and senior years. No degree credit will be allowed for the elementary part of the foreign language chosen.

Although no applicant will be admitted on certificate with fewer than fifteen acceptable units, the officer of admissions will, in general, be primarily concerned with substantial evidence of a serious, well-defined purpose on the part of the applicant and with his apparent ability and determination to utilize effectively the educational and cultural opportunities available to all at the University.

The right is reserved to reject the application of any applicant who ranked in the lower half of his high or preparatory school graduating class. This right will in general be exercised unless the applicant is able to offer weighty and convincing evidence tending to prove that there is a strong probability of academic success in work of university or college grade despite his failure to perform satisfactorily from the standpoint of scholarship in his high or preparatory school. For cause the Board of Admissions may disapprove an application for admission.

Provision is made for students who present credits in excess of the fifteen required units to take substantiating examinations for advanced standing in whatever subjects the Dean of the General College may deem advisable. This opportunity is open to those who have taken in high or preparatory school work over and above the minimal entrance requirements which is approximately equivalent to some of the freshman-year program in the General College. The passing of such examinations will enable the student to take during his first year the next course in the subject on which he is examined or to take other subjects not ordinarily pursued by freshmen. Formal application for examinations of this sort should be made to the Dean of the General College sufficiently far in advance of the date of registration to enable him to arrange for the examinations. For this purpose,

fifteen days' notice suffices. No charge is made for these examinations.

ADMISSION BY EXAMINATION: Persons desiring admission to the General College who are unable to offer satisfactory evidence of eligibility on the basis of a certificate from an accredited school may qualify for admission by passing our entrance examinations. The tests used for this purpose are designed to determine the examinee's ability in general and his fitness for college work. The form of the examination actually used is comparable to the tests of college aptitude and achievement in previous studies furnished by the American Council on Education.

Entrance examinations are held on the first Saturday in June and may be arranged for on request immediately before the opening of the fall, winter, and spring quarters. As a rule these examinations may be completed within one day, the results tabulated, and a determination of the examinee's success or failure made and announced. Sample copies of previously given examinations are *not* available for distribution. A fee of one dollar is charged each person taking the entrance examination, which fee is not refundable.

Applicants seeking admission to the General College on the basis of preparation secured under the supervision of private tutors must in every instance qualify on the basis of our entrance examination. Certificates attesting to one's preparation in this wise are not *per se* acceptable, but are desired as evidence of work done.

The University is cooperating with the Commission on the Relation of School and College of the Progressive Education Association. During the course of the eleven-year experiment being conducted by that Commission, students recommended by member schools will be accepted for admission to the General College without regard to other entrance requirements.

EXPLANATORY NOTES: (1) Algebra: An applicant who offers only one unit in algebra but who otherwise qualifies for admission may absolve himself from the deficiency in either of two ways: a) he may take our Freshman Mathematics and, if he passes on the first trial, the deficiency is automatically removed; or b) he may, with or without the aid of a private tutor, prepare for a special examination during his first year in residence, to be taken under the supervision of our Department of Mathematics. (2) Plane Geometry: An applicant who is unable to offer the required unit in plane geometry may, if he otherwise qualifies for admission, remove the deficiency in this way: he may, with or without the aid of a private tutor, prepare for an examination during his first year in residence, to be taken under the supervision of our Department of Mathematics. (3) Foreign

Language: An applicant who otherwise qualifies for admission but who is unable to meet the requirement in foreign language may remove the deficiency by taking, and passing satisfactorily, the elementary part of Spanish or German or French or Latin or Greek. These subjects are given during the regular academic year, September to June, and, except for Greek, during the summer session. Generally speaking, one unit in foreign language will not be counted towards the fifteen unit total required to be offered. Since all our undergraduate curricula presuppose admission without deficiencies, it is very desirable that applicants with deficiencies seek to clear these during the summer immediately preceding the fall opening at which they expect to matriculate. *All entrance deficiencies must be removed before registration for one's fourth quarter in residence,* not counting the summer session.

Admission to Advanced Standing in the General College

Persons seeking admission to the General College on the basis of work of college or university grade taken elsewhere are required to present for review and examination properly certified statements covering such work. Such transcriptions of record should be in hand at least fifteen days before the opening of the quarter in which the applicant desires to enroll. Formal application for admission must be made, and blanks for this purpose may be secured by writing the Associate Registrar. For statement of fee to be sent with an application, see footnote under Admission to the College of Arts and Sciences, page 68. Each transcript of record will be evaluated in terms of our General College requirements, and credits allowed may or may not be approximately equivalent quantitatively to the total secured in terms of the curriculum pursued at the college or university from which the applicant seeks to transfer. No credit is allowed for work done at non-standard or non-accredited colleges and universities unless a substantiating examination in each subject for which credit is sought is passed. These examinations must be taken here.

The right is reserved to reject wholly or in part any record submitted in support of an application for admission with advanced standing and to require a validating examination in any or all of the subjects for which credit is desired. Applicants who have failed to maintain a satisfactory scholarship record as distinguished from a record which is poor, or barely passing, or who, for any reason whatever, are ineligible to continue in the institution from which they seek to transfer are advised not to seek admission on any basis to the General College. We do not disregard at any time or under any conditions college or university records in order to admit applicants solely on the basis

of their high or preparatory school records. It will be considered a flagrant violation of the honor code if any applicant makes a false statement in his application for admission with reference to previous college or university attendance in order to gain admission on the basis of a high or preparatory school record.

The University is not an accrediting agency. It accepts the accreditation of the North Carolina State Department of Education in so far as high and preparatory schools and colleges, junior or four-year institutions, are concerned. Outside of North Carolina, the University depends upon the accreditation of the departments of education of the various States, upon the accreditation of the state universities or institutions of comparable rank, and upon the accreditation of regional accrediting agencies.

Admission of Non-residents

Applicants from outside of North Carolina, *i.e.*, non-residents of North Carolina, may be required to supplement their applications and certificates or transcripts by a personal interview with a representative of the University, the time and place being arranged upon request from interested persons.

GUIDANCE OF STUDENTS IN THE UNIVERSITY

The University conceives education to be directed toward the best development of each individual. Since no two persons have exactly the same powers and potentialities it follows that no two students can profit equally by the same educational experiences. The University accordingly seeks to study each student in terms of his own background of experience and his own potentialities of interest, ability, and cultural needs. Each student is the special charge of a member of the Committee of Advisers.

Before admission of the student the University obtains from him and his school principal information concerning the applicant's personal history. This information is made the basis of a cumulative personnel record of each student. To it are added placement test scores, results of physical examination, grades on courses, record of activities, etc. This record is in the hands of the General College Adviser from the time the applicant is accepted until he completes the General College course. Then it is available to the departmental adviser in the major field of study chosen. Finally this record is available for vocational guidance and for inspection by prospective employers.

In this way the University is making every effort to deal with each student from admission to graduation as an individual personality about whom a definitely responsible adviser always has the needed information. In using this information the personal interest and experience of the adviser may be supplemented in case of special need by members of the General

Administration competent in such special fields as health, financial aid, vocational guidance, mental hygiene, and religious and moral problems.

Because the abrupt transition from the intimate supervision of home life to the greater freedom of campus living creates special difficulties for the freshman, the University is making an added provision for daily contact between individual freshmen and a mature and interested upperclassman or graduate. Twenty-six such resident adviserships have already been established in four dormitories and two fraternities. These resident advisers are carefully chosen, receive a small stipend from the University, and work in close cooperation with the General College staff in their personal contacts with the freshmen for whom they are responsible.

PROGRAMS OF STUDY

With a view to the most effective preparation of those who will proceed to degrees through any of the regular curricula, the General College offers programs of study as follows:

*BACHELOR OF ARTS

Freshman Year

Required:
- English 1-2-3
- Social Science 1-2-3
- Hygiene 1-2-3
- Physical Education 1-2-3

Choose one:
- Mathematics 1-2-3
- **Greek 11-12-13
- **Latin 11-12-13 or Latin 21-22-23

Choose one:
- Chemistry 1-2-3
- Geology 21-22-23
- Physics 1-2-3
- Nat. Science 1-2-3

Choose one:
- **French 11-12-13
- **German 11-12-13
- **Greek 11-12-13
- **Latin 11-12-13 or Latin 21-22-23
- **Spanish 11-12-13

Sophomore Year

Required:
- English 21-22-23
- ***Foreign Language 21-22-23 (Continuing the one chosen in the first year)

Choose one:
- Economics 21-22-23
- Education 41-42
- History 21-22-23
- History 41-42
- History 44-45-46
- Philosophy 21-22-23
- Political Science 31-32-33
- Sociology 21-22-23

Choose one:
- Botany 41 and Zoology 41
- Botany 41 and 43
- Chemistry 1-2-3 or 4-5, or 31 and 41 (or 42)
- Geology 21-22-23
- Mathematics 21-22-23
- Physics 21-22-23
- Psychology 21-22-23
- Zoology 41 and 42

In addition choose one free elective—3 hours a week for the year.

* Students who plan to take music as their major subject should consult the footnote under the Department of Music in this catalogue for information concerning their programs for the freshman and sophomore years.

** Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language.

*** If Latin 21-22-23 was taken in freshman year, a second elective of 3 hours a week for the year is to be taken.

BACHELOR OF SCIENCE IN COMMERCE

Freshman Year

Required: Nat. Science 1-2-3c; English 1-2-3; Social Science 1-2-3; Mathematics 4-5-6; Hygiene 1-2-3; Physical Education 1-2-3

Choose one: *French 11-12-13; *German 11-12-13; *Spanish 11-12-13

Sophomore Year

Required: English 21-22-23; Economics 21-22-23; Economics 11 and 35

Continue one: French 21, 24-25; Spanish 21, 24-25; German 21-22-23

Choose one: Botany 41, 43; Chemistry 1-2-3 or 4-5; Geology 21-22-23 or 41-42; Physics 21-22-23 or 24-25; Zoology 41-42

BACHELOR OF SCIENCE IN CHEMISTRY

Freshman Year

Chemistry 1-2-3
English 1-2-3
*German 11-12-13
Mathematics 1-2-3
Social Science 1-2-3
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Chemistry 31, 42, 41
English 21-22-23
***German 21-22-23
Mathematics 21-22-23 or 31-32-33

BACHELOR OF SCIENCE IN GEOLOGY

Freshman Year

Required: Geology 21-22-23 or 41-42; English 1-2-3; Mathematics 1-2-3; Social Science 1-2-3; Hygiene 1-2-3; Physical Education 1-2-3

Choose one: *French 11-12-13; *German 11-12-13; *Spanish 11-12-13

Sophomore Year

Chemistry 1-2-3
English 21-22-23
Geography 31-32-33
Mathematics 41, 51, 52

BACHELOR OF SCIENCE IN PHYSICS

Freshman Year

Physics 1-2-3 or 21-22-23
English 1-2-3
*German 11-12-13 or French 11-12-13
Mathematics 1-2-3
Social Science 1-2-3
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Required: English 21-22-23; Mathematics 31-32-33 or **21-22-23; ***German 21-22-23 or French 21-22-23

Physics 55
Physics 52 or 56
Physics 42 or 54

---

* Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language.
** If Mathematics 21-22-23 is chosen, the student must take in addition an elective course of three hours a week through the year; Mathematics 31-32-33 is recommended.
*** Scientific or technical German (24-25-26) may be taken for German 21-22-23.

BACHELOR OF SCIENCE IN MEDICINE

Freshman Year

Required: English 1-2-3; Chemistry 1-2-3; Mathematics 1-2-3; Social Science 1-2-3; Hygiene 1-2-3; Physical Education 1-2-3

†Choose one: *French 11-12-13; *German 11-12-13

Sophomore Year

Required: English 21-22-23

†Continue one: French 21-22-23; German 21-22-23

Chemistry 31 and 42 and either Botany 41 and Zool. 41, 42 or Botany 41 and Physics 24-25

††Electives 5 or 6 hours.

NOTE: In order to complete the academic part of this curriculum, the student must complete the third year's work including the courses not shown in the group of sciences just above. See curriculum for S.B. in Medicine under College of Arts and Sciences.

Special attention is called to the note near the top of page 82.

* Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language.

† Note that, if both French and German are taken, the requirement will be met by three quarters of successful work in each; that is, by the completion of 1-2-3 or 11-12-13 French and 1-2-3 or 11-12-13 German.

†† It is suggested that this elective be Philosophy 41 or in history or political science.

THE COLLEGE OF ARTS AND SCIENCES

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., Litt.D., *President*
ROBERT BURTON HOUSE, A.M., *Dean of Administration*
ALLAN WILSON HOBBS, Ph.D., *Dean*

*THE ADMINISTRATIVE BOARD

WILLIAM FREDERICK PROUTY, Ph.D.
MITCHELL BENNETT GARRETT, Ph.D.
HOWARD RUSSELL HUSE, Ph.D.
JOHN NATHANIEL COUCH, Ph.D.
MILLARD BRECKENRIDGE, Ph.B., LL.B.
RALPH WALTON BOST, Ph.D.
KARL HARTLEY FUSSLER, Ph.D.
GEORGE RALEIGH COFFMAN, Ph.D.
HARL ROY DOUGLASS, Ph.D.
CORYDON PERRY SPRUILL, JR., A.B., B.Litt.(Oxon.)

GENERAL STATEMENT

Beginning with the year 1935-1936 the School of Education, the School of Applied Science, and the College of Liberal Arts were combined into one College, the College of Arts and Sciences. In addition to administrative simplicity there are certain other values to be expected from the combination. In the case of the School of Education it was thought that under the present arrangement there would be a closer cooperation between all the agencies in the University interested in teacher training, and due to the importance of this question such cooperation is greatly to be desired. We may say then that under the College of Arts and Sciences are grouped the regular Arts courses with majors in the various academic fields, the special Science courses having special Bachelor of Science degrees in Chemistry, Geology, Physics, and Medicine, and all undergraduate teacher training programs.

Students in the College of Arts and Sciences have completed the first two years of college work in this or some other institution of similar standards. Thus only the junior and senior years are represented. In this University the first two years for all students except those in the School of Pharmacy, are in the General College which has a Dean and a corps of Advisers whose purpose it is to see that students get started correctly, and as nearly as possible in line with their aptitudes and interests.

The work of the College of Arts and Sciences is distributed among three Divisions known as the Division of Humanities, the Division of Natural Sciences, and the Division of Social Sciences. Students who know what they expect to study at the beginning of the freshman year or at the beginning of the sophomore year

* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

have, through the options and the electives, the opportunity to prepare for almost any desirable specialization in the last two years. There has been set up, moreover, a Division of Teacher Training for the purposes of administration, guidance, and program-making in that field.

At the beginning of the junior year a student expecting to enter the College of Arts and Sciences must choose one of the Divisions for his major work. He will then be under the direction of the Head of the Division and an Adviser from the Department of his major subject. The only students not so placed in Divisions will be candidates for the combined A.B.-LL.B. degree and special students not candidates for any degree. Such students will be directly under the guidance of the Dean of the College.

It is the general understanding that during the junior and senior years a student in a Division will take about one-third of his work in one Department, one-third in allied Departments in the Division of his major, and one-third as free electives outside the Division. There are variations from the numerical aspects of this rule due to special circumstances and among the Divisions. It is also understood that a student shall have the right to submit a program of his own, which may be at variance with the regular divisional arrangement, to the Head of a Division and, if it is approved by the Advisory Board of the Division, he may follow it towards the appropriate degree. The requirements of the Divisions are explained later under the Divisions themselves, and as has already been said they vary somewhat among the Divisions and from the average figures.

Special attention should be called to the Bachelor of Arts degree with major in Music and to the Bachelor of Arts in Journalism. In addition to these are the Bachelor of Science courses in the special sciences of Chemistry, Geology, Physics, requiring the usual four-year program; the Bachelor of Science in Medicine, awarded at the end of the first year in the School of Medicine of this University; and the A.B. degree after a specified program of two years in the General College, one in the College of Arts and Sciences, and one year in the School of Law in this University. The teacher training programs vary with the subjects to be taught in the high schools according to the schedules of the State Department of Education. Special attention is given to physical education and health programs for the schools by specialists in this field. The courses in dramatic art and the Carolina Playmakers furnish good opportunity for students interested in the theatre.

Attention should be called to the opportunities offered by the Summer Session for reducing the time spent in completing the work for degrees and for making changes from one program to

another without loss of time. By this means students as late as the end of the sophomore year may change from a regular Bachelor of Arts program to one of the special Bachelor of Science programs.

TEACHER TRAINING

Special attention is given to the proper training of those who expect to teach in the high schools of the State. Through an arrangement with the Chapel Hill High School students are given the opportunity to observe a specially trained group of teachers at work and to take part in the teaching themselves. Training for persons who expect to work in physical education as well as to teach in the schools is provided through the cooperation of the Medical School, the entire athletic staff, and the specialists in physical education.

Students intending to prepare for teaching are advised to consult with the Chairman of the Division of Teacher Training as early in their college careers as possible, both to give notice of their intention and to see that their courses in the subjects they intend to teach are properly chosen. It is advisable to prepare to teach in two fields. See programs of study in the Division of Teacher Training, page 76.

PREPARATION FOR THE STUDY OF LAW AND MEDICINE

Students preparing for the study of Medicine or of Law may do so in one of the following ways: (1) they may take the regular four-year course leading to the A.B. degree, choosing subjects proper to their purpose; (2) they may take the special courses leading to the A.B.-L.L.B. or the S.B. in Medicine; (3) they may take three years of academic work without the Bachelor's Degree in view, but with careful regard to meeting the exact requirements. Students preparing for dentistry should take at least the first two years of the pre-medical course.

*ADMISSION

Admission to the College of Arts and Sciences is based upon the satisfactory completion of the first two years in this University or another institution of similar standards, or in an approved junior college. By order of the Board of Trustees, women may enter the College of Arts and Sciences on the same terms as men. It is expected that at least half the grades received in the work presented for admission be of grade "C" or better.**

---

* Each application for admission to advanced standing must be accompanied by a fee of five dollars ($5.00) as an earnest of good faith. If the applicant is not accepted, the fee is returned; if he is accepted and enrolls as a student, the fee (having been deposited with the University Cashier) will be applied against the bill at his first registration; if he is accepted but chooses not to enroll as a student here, the fee will be forfeited regardless of the reasons involved.

** This means 80 or higher in percentage grades with 70 as the passing grade.

In cases upon which there is doubt as to preparation credits granted will be of a tentative nature which must be validated by work taken in this University.

In general students entering the third year of college which is the first year in the College of Arts and Sciences, should present at least sixty-four semester hours of college work, or ninety-six quarter hours, exclusive of physical education. This work should include two years of work in English, two in one foreign language above the entrance units, two years in one or one year in each of two natural sciences with full laboratory work, two years in social science, including history, one year in mathematics or a classical language, one year of hygiene and physical education, and sufficient electives to make the full two years of college work.

In exceptional cases provision will be made for students who cannot meet the exact requirements, either to take the work needed here in the General College or to take examinations to prove that they are able to carry the work in the College of Arts and Sciences. In no case, however, will a degree be conferred without the completion of the full entrance requirements of this University either by examination or by certificate, the completion of the full course as required for the degree concerned, *and the additional requirement that the full work of the last year shall be done in residence at this University.*

If required freshman courses are taken after the student begins his seventh quarter or if required sophomore courses are taken after he begins his tenth quarter, only half credit is allowed.

CURRICULUM LEADING TO BACHELOR OF ARTS

In order to secure the degree of Bachelor of Arts it is necessary that the student complete fully the requirements set up in the General College for the first two years and follow this by meeting in full the requirements in one of the Divisions for the junior and senior years. See page 63 for a statement of the requirements in the General College and pages 70-74 for the general requirements in the Divisions. The requirements for a major in any Department will be found in connection with the descriptions of courses offered by that Department.

Special attention is called to the academic curriculum leading to the combined A.B.-LL.B. See page 80. The academic requirements for the degree of S.B. in Medicine are shown on page 82. In these curricula students secure the degree of A.B. after three years of academic work and one year of law, and the degree of S.B. in Medicine after three years of academic and one year of medical work.

The minimal number of quarter hours for graduation is 192, including 6 quarter hours in Physical Education. If a subject has five class meetings a week for a quarter this subject carries five quarter hours. Laboratory work is considered in this evaluation as one quarter hour for two hours of scheduled work in the laboratory. It is entirely possible that a student may accumulate the minimal number of hours for graduation but still not have met the requirements of his Division. The requirements of the Division must be met regardless of the number of quarter hours taken.

There is no intention on the part of the University to evaluate education in terms of hours and courses, but since the usual time period in American Colleges is four years we give the time element in quarter hours and the content in courses for the convenience of the student.

In an effort to replace the time serving point of view by achievement the student is required to pass a comprehensive examination in his major subject. This examination is given four times a year, fall, winter, spring, and summer. To be eligible to take this examination the student must have completed the work of his major subject or receive the approval of the Head of his Major Department. The time of these examinations is usually soon after the middle of each quarter. Students in the program leading to A.B.-LL.B. or to the S.B. in Medicine do not take the comprehensive examination, but are awarded their Bachelor's degree upon the satisfactory completion of the first year in the School of Law or the School of Medicine, according to the regulations of these two Schools. It should be observed that the Bachelor's degree is awarded only upon the satisfactory completion of the first year in the School of Law or the School of Medicine in the University of North Carolina.

Students are advised to choose their major subjects if possible by the beginning of their second year, if not earlier, as the work in the major may be greatly facilitated by the proper choice of courses in the sophomore year. It is also highly desirable that all the requirements of the first two years be satisfied before entering one of the Divisions for the major work. The Summer Session may be used for this purpose by students who find themselves behind in their schedules.

THE DIVISIONS

For the purpose of better educational policy in regard to the student's choice of courses, sequences of courses, etc., the faculty is divided into three Divisions, the Division of the Humanities, the Division of the Social Sciences, and the Division of the Natural Sciences. As indicated above, another Division has been set up for administration, guidance, and program-making in the

field of teacher training. The work of some Departments will be found in more than one Division and for convenience that of others may from time to time be shifted from one to another or be placed in more than one; courses in Departments listed in more than one division, however, cannot be counted both as allied to the major and as extra-divisional work.

The student should make up his mind by the end of his freshman year if possible what subject he wishes to make his major. In his sophomore year he should take whatever work he can looking towards his major. In his junior year he enters one of the Divisions and his work is directed by the requirements of the Divisions and by any special needs he may have in conference with the Head of the Division, or by a person designated for this purpose. Students taking the A.B.-LL.B. course do not fall in any Division but are under the direct charge of the Dean of the College of Arts and Sciences; those taking the S.B. in Medicine curriculum are in the Division of the Natural Sciences.

After full consideration and discussion the Divisions have arranged their general plans of operation with reference to requirements in the junior and senior years as will be shown below. As ordered by the General Faculty in its action on the plan, it is understood that any individual may find it advisable to work out for himself a plan, submit that plan in detail to the Division of his choice, and ask for approval of the same. If such approval is granted, he may proceed towards his degree on that plan.

THE DIVISION OF THE HUMANITIES

William Morton Dey, Ph.D., *Chairman*
Richmond Pugh Bond, Ph.D., *Secretary*

After a student has selected his department of major interest, that department must require of him a minimum of six whole quarter courses, or the equivalent in whole and half courses, and may require a maximum of eight such courses. In the allied departments of the Division the student must take at least four such quarter courses and may take eight, distributed between at least two departments; not more than four of these divisional courses may be taken within one department. It is required that the student take from departments in the other Divisions at least four and not more than seven whole quarter courses, in all a sufficient number of courses to make a total of at least eighteen whole quarter courses over and above the full requirements of the General College.

The Departments of Instruction included in the Division of the Humanities are as follows:

The Classics	History
English	Philosophy
Germanic Languages	Art
Romance Languages	Dramatic Art
General and Comparative Literature	Music

Note that for the purpose of teacher-training the Division of Teacher Training is considered as allied to each Division.

Program for Honors Work

A student in one of the departments in the Division of the Humanities may as the result of distinguished work be awarded a degree with *Honors or Highest Honors.*

I. APPLICATION. At the end of the sophomore year or the beginning of the junior year the student with a good record for courses in the General College may become a candidate for honors by applying to the head of his major department or to the chairman of the departmental committee on honors, with whom he will confer on a unified program of work. The student who fails to register for honors before the second quarter of his junior year may be admitted to candidacy only upon application to the Advisory Board of the Division.

II. REQUIREMENTS. The candidate for honors is expected to give evidence of ability to do work which in quality and quantity can be judged as outstanding. In addition to a good general knowledge of his major subject he must secure an intensive understanding of that special field which will form the background of his essay. To this end he should do, in term and in vacation, a large amount of reading additional to that assigned in his regular courses. (For reading courses see below, Section IV). A grade average of B in the major subject will normally be considered as a minimum. The following are the formal requirements for a degree with honors in the Division:

1. *Written comprehensive examination.*
2. *Essay.* This essay, which need not be a piece of original research, must be submitted in typed form by May first of the senior year.
3. *Oral examination.* This examination, one hour in length, will be limited to the student's special field.

All of the honors work must come up to a standard of excellence to be determined by the departmental committee, which shall have charge of the administration of the requirements and shall have the power to demand that a student return to his

regular status. The candidate showing a superlative degree of ability and industry will be awarded *Highest Honors*.

III. ADVISER. To guide him in his reading and in the preparation of his essay a member of the staff of his major department will be assigned the candidate for honors as a special adviser.

IV. EXEMPTION FROM CLASSROOM COURSES. The candidate for honors may receive credit for as many as three reading courses. Such courses, with exemption from class attendance and the requirements of regular courses, should usually be taken during the first and second quarters of his senior year, though the departmental committee, on the recommendation of the special adviser, will have power to modify such a procedure. Only one of the three reading courses may be taken during the junior year, not more than two of them may be taken during a single quarter, and all three of them must be counted as belonging to the major subject. The candidate who upon his own initiative or the decision of the departmental committee abandons working for honors or who fails to satisfy all the formal requirements for a degree with honors may, with the consent of the departmental committee, receive credit for the reading courses which he has completed.

THE DIVISION OF THE SOCIAL SCIENCES

ALBERT RAY NEWSOME, Ph.D., *Chairman*
KATHARINE JOCHER, Ph.D., *Secretary*

This Division requires the student to complete a minimum of six whole quarter courses or the equivalent in whole and half courses in his chosen department of major interest. If however essential foundation courses in the major department have not been completed in the General College, a maximum of eight such courses may be required in that department. From five to seven courses in allied departments within the Division of the Social Sciences are required, and from Departments in the other Divisions at least five and not more than seven whole quarter courses, in all a sufficient number of courses to make a total of at least eighteen whole courses over and above the full requirements of the General College.

This Division includes the following Departments of Instruction:

Economics	Sociology	Political Science
Philosophy	History	Rural Social-Economics
Psychology		

NOTE: See the note on the Division of Teacher Training above in connection with the Division of the Humanities.

Program for Honors Work

The program for honors work in the Division of the Social Sciences is substantially the same as that in the Division of Humanities above, with the important difference that in the Division of the Social Sciences, the candidate for honors may receive credit for only two reading courses.

THE DIVISION OF THE NATURAL SCIENCES

ROBERT ERVIN COKER, Ph.D., *Chairman*
FLOYD HARRIS EDMISTER, Ph.D., *Secretary*

The general requirements in this Division are as follows: six whole quarter courses or the equivalent in the department of major interest, six in allied departments of the Division, and six in departments in other Divisions, in all a total of eighteen courses.

By action of the Division it is agreed that courses taken in the General College (exclusive of regular freshman courses) may, in the discretion of the department concerned, be credited towards meeting the requirements for a major; and that similar courses in allied departments taken in the General College may, in the discretion of his department of major interest, be credited towards meeting the requirement of courses in allied departments. The purpose of this action is to give the student a larger opportunity to take courses in departments outside the Division.

The following Departments of Instruction are included in this Division:

Botany	Philosophy	Chemistry	Physics
Geology	Psychology	Mathematics	Zoology

NOTE: The place of the Division of Teacher Training is indicated above under the Division of the Humanities.

THE DIVISION OF TEACHER TRAINING

HARL ROY DOUGLASS, Ph.D., *Chairman*

ADVISORY BOARD

HARL ROY DOUGLASS, Ph.D., *Kenan Professor of Secondary Education*
FREDERICK HENRY KOCH, A.M., Litt.D., *Kenan Professor of Dramatic Literature*
EDGAR WALLACE KNIGHT, Ph.D., *Kenan Professor of Education*
FRANCIS FOSTER BRADSHAW, Ph.D., *Dean of Students and Professor of Philosophy*
ROBERT ERVIN COKER, Ph.D., *Professor of Zoology*
ARTHUR MELVILLE JORDAN, Ph.D., *Professor of Educational Psychology*

ALLAN WILSON HOBBS, Ph.D., *Professor of Applied Mathematics and Dean of the College of Arts and Sciences*
WILLIAM FLINT THRALL, Ph.D., *Professor of English*
URBAN TIGNER HOLMES, JR., Ph.D., *Professor of Romance Philology*
ENGLISH BAGBY, Ph.D., *Professor of Psychology*
JAMES TALMADGE DOBBINS, Ph.D., *Professor of Chemistry*
SAMUEL HUNTINGTON HOBBS, Ph.D., *Professor of Rural Social-Economics*
ARTHUR EDWARD RUARK, Ph.D., *Kenan Professor of Physics*
ALBERT RAY NEWSOME, Ph.D., *Professor of History*
OLIVER KELLY CORNWELL, M.A., *Professor of Physical Education*
GUY BERRYMAN PHILLIPS, A.B., *Professor of Education*
RICHARD JENTE, Ph.D., *Professor of German*
ROBEN JOHNE MAASKE, M.A., *Professor of Education*
SHIPP GILLESPIE SANDERS, A.M., *Associate Professor of Latin*
CARLETON ESTEY PRESTON, Ph.D., *Associate Professor of the Teaching of Science*
PRESTON COOKE FARRAR, M.A., *Associate Professor of the Teaching of English*
HUGO GIDUZ, A.B., *Associate Professor of the Teaching of French*
HOWARD FREDERICK MUNCH, A.M., *Associate Professor of the Teaching of Mathematics*
CHARLES BASKERVILLE ROBSON, Ph.D., *Associate Professor of Political Science*
LEE MARSHALL BROOKS, Ph.D., *Associate Professor of Sociology*
JOHN MINOR GWYNN, Ph.D., *Associate Professor of the Teaching of Latin*
EARL ANDERSON SLOCUM, M.M., *Associate Professor of Music*
ARNOLD KIMSEY KING, A.M., *Assistant Professor of the Teaching of History*
SAMUEL THOMAS EMORY, M.A., *Assistant Professor of Geology*
REX SHELTON WINSLOW, Ph.D., *Assistant Professor of Economics*
JOSEPH EDISON ADAMS, Ph.D., *Assistant Professor of Botany*
WALTER SPEARMAN, A.M., *Assistant Professor of Journalism*
RUSSELL TRAIN SMITH, A.B., M.Arch., *Assistant Professor of Art*

GENERAL STATEMENT

By trustee sanction and under direction of the all-University Division of Education, a local Division of Teacher Training has been organized as an integral part of the College of Arts and Sciences for the purposes of administration, guidance, and program-making in the field of teacher training in the University at Chapel Hill.

Undergraduate students who desire to prepare for secondary school teaching will be admitted to the Division after consultation with the Chairman or his representative. Each student shall

follow the program of courses in Education outlined below. In addition he shall select one of the following as his major field of preparation: English, French, Latin, Mathematics, Music, Natural Science, Physical Education, or Social Science. With the advice of the department concerned (or Division in the cases of Natural Science and Social Science) the student shall follow one of the programs outlined below. A comprehensive examination is a part of the requirement for the completion of each major program. Each student is strongly advised to select a second or minor program in one of the fields listed above or in Dramatic Art; however, this is not required. Any combination of major and minor programs outlined below will be permitted. All students should consult with the Chairman of the Division of Teacher-Training regarding desirable teaching combinations which are commonly in demand. If the student chooses to prepare in only one field his additional electives must receive the approval of the Chairman of the Division.

The Advisory Board of the Division of Teacher-Training is composed of the members of the Department of Education and one representative from each of the other departments in the College of Arts and Sciences.

Education

The following courses in Education are required of all students to meet the requirements for certification in North Carolina: Education 41, 71, 98 or 99, one course in Materials and Methods, one course in Directed Teaching, and one elective in Education.

Dramatic Art

Students who choose a minor program in Dramatic Art will take the following courses: Dramatic Art 63, 64 and two of the following: 155, 161, 162.

English

Students who choose a major program in English will be required to take: English 81; English 50; English 70, or by special permission 95; English 88, or 141, or by special permission 131; and unless exempted for sufficient reasons a course from one or two of the following groups: English 41, 42, or 44; English 52, 53, or 54; and English 95. Students shall select additional electives to make a total of thirty-five quarter hours chosen in consultation with the departmental adviser who will supply a list of especially recommended electives which in approved cases may include one course in Dramatic Art, English History, Philosophy, Comparative Literature, or Journalism.

Students who choose a minor program will be required to take: English 81; English 50; English 88, or 141, or by special

permission one of the following: English 70, 95, 99, 125, or 131; unless exempted one of the following: English 52, 53, or 54; or when exempted from the latter requirement, an approved elective.

French

Students who choose a major program in French will take the following courses: French 51; 52; 71; 72; 126; 145; and 55 (when required), or 109, or 192. Those choosing a minor program will take: French 55 (when required), or 51; 71; 72; and 145. French 55 is required of all students whose knowledge of grammar is considered unsatisfactory.

Latin

Students who choose a major program in Latin will take the following courses: Latin 71 and 51 or 52; and four additional courses, one of which may be a course requiring no work in the Latin lauguage, from the following: Latin 62, 76, 101, 102, 103, 104, 105, and 112. Those who choose a minor program will take Latin 71, 51 or 52, and two additional courses.

Mathematics

Students who choose a major program in mathematics will take the following courses: Math. 21-22-23, or 31-32-33; Math. 103 and additional courses in mathematics to make a total of thirty quarter hours. It is recommended that the latter be selected from Math. 51-52, 104, and 131. Those who choose a minor program will take twenty quarter hours from the major programs.

Music

Students whose major for the A.B. degree is in Music, and who desire to qualify for teaching should plan their work so as to include, in addition to the regular courses in the major, the courses in Education listed above. The student desiring to specialize in instrumental music should include at least two courses, selected according to his major instrument. Those who choose a minor program in music will take the following: Music 1-2-3; Music 24-25-26 or any two from Music 54, 55, 56; and three quarter hours instruction in Voice.

Natural Science

The student who desires the degree of Bachelor of Science in Science Teaching will take the following program during his four years in the University:

	Quarter Hours
English 1-2-3, 21-22-23	18
Foreign Language 11-12-13, 21-22-23	18
Social Science 1-2-3	9
Math. 1-2-3, 21-22-23 (or 31-32-33), and 103	23 or 29

	Quarter Hours
Chemistry 1-2-3, 31, and one other	24
Physics 21-22-23 and one other	17
Botany 41, 43	12
Geography 31-32-33 (or in special cases 2 others)	12
Zoology 41-42 and 103 or one other	17
Education 41, 71, 92, 98 (or 99), 191, and one other	30
Hygiene 1-2-3 and Physical Education 1-2-3	6
*Elective	6
Minimum:	192

Students interested in a major program in natural science leading to the Bachelor of Arts degree will consult the Chairman of the Division of Natural Sciences or his representative for advice in planning a suitable program. The student who desires the minimum number of courses necessary for a teacher's certificate in North Carolina should take the following courses or their equivalent during his four years in the University: Physics 21-22-23; Chemistry 1-2-3; Botany 41; Zoology 41; one course in Geology; and one additional course in a natural science.

Health and Physical Education

Students who choose a major program in health and physical education will take the following courses: Physical Education 51, 52, 53, 71, 72, and 73; and Health Education 61 and 62. Those who choose a minor program will select four courses from the following: Physical Education 51, 52, and 53; and Health Education 61 and 62. The minor for women must include Physical Education 74 and 85. In both the major and minor programs the student shall take Health Education 63 as one of his required courses in the Department of Education.

Social Science

As prerequisite to either the major or minor program in social science and to satisfy certain basic certification requirements all students must have the following courses or their equivalent: Social Science 1-2-3, History 21-22-23, and Political Science 51. It is recommended that these courses be completed by the end of the sophomore year. The student who chooses a major program may then pursue either of the following plans:

(1) A major of 6 or 7 courses in one of the following departments in the Division of the Social Sciences as prescribed by that department: Economics, History, Political Science, or Sociology, including Rural Social-Economics; or

* The elective work (if in science) may be chosen from the following subjects: mathematics, chemistry, physics, botany, zoology, physiology, bacteriology, geology, geography—subject to the approval of the Chairman of the Division of Teacher Training or his representatives. The Head of the Department chosen will be consulted as to the suitability of particular courses for prospective teachers.

(2) A major in Social Science consisting of the following courses or their equivalent: Economics 61 and 62, two five-hour courses in history of junior-senior rank, Rural Social-Economics 101 (except in case of out-of-state students who may substitute Rural Social-Economics 51 or 71), and Sociology 51 and either 151 or 181.

Students who choose a minor program will take the prerequisite work mentioned under the major program and three additional courses selected from any of the following fields: economics, history, political science or sociology, including rural social-economics.

CURRICULUM LEADING TO THE DEGREE OF A.B. IN JOURNALISM

The course of study for the first two years is the same as that required of other candidates for the A.B. degree.

The following courses are specified in the junior and senior years:

English 52 or 53 or 54.

Two courses in Economics.

American Government and one other course in Political Science to be approved by the Head of the Department of Journalism.

Two courses in American History or two courses in North Carolina History.

One course in Advertising given by the School of Commerce.

Four and one-half courses in Journalism.

Elective, six and one-half courses. While it is suggested that these may well come from economics, philosophy, English, or foreign languages, it is understood that they are not restricted and the student is free to take his choice from any courses of junior or senior grade in the College of Arts and Sciences.

ACADEMIC CURRICULUM FOR A.B.-LL.B.

Upon the completion of the courses in the General College and in the College of Arts and Sciences outlined below, with grades of C or better on at least half of the work, *and before matriculation in the School of Law,* and the completion of the first year of law to the satisfaction of the School of Law, a student may receive the degree of A.B., and, upon the satisfactory completion of the three years of law, the degree of LL.B., thus securing both degrees in six years instead of the seven years required for the two separately. The prescribed academic work is as follows:

First Year	*Second Year*	*Third Year*
English 1-2-3	English 21-22-23	Economics 61-62 (if not already taken)
Social Science 1-2-3	History 21-22-23 or 44-45-46	
*Mathematics 1-2-3		
Hygiene 1-2-3		
Physical Education 1-2-3		
Select one: †Greek 11-12-13; **Latin 11-12-13; †French 11-12-13; †German 11-12-13; †Spanish 11-12-13	Select one: Economics 21-22-23; Polit. Science 31-32-33; History 21-22-23; History 44-45-46; Philosophy 21-22-23; Sociology 21-22-23	††English 44 and one other course of 5 quarter hours in English; ††History and Political Science—2 courses of 5 quarter hours each
Select one: Nat. Science 1-2-3; Chemistry 1-2-3; Geology 21-22-23; Physics 1-2-3	Select one: **Latin 21, 24-25; Greek 21-22-23; French 21-22-23; German 21-22-23; Spanish 21-22-23	Psychology 21-22-23 (if not already taken)
	Select one: Botany 41, 43; Chemistry 1-2-3 or ‡4-5 or 31 and 41; ‡Physics 21-22-23; Zoology 41, 42; Botany 41 and Zoology 41; Geology 21-22-23; Psychology 21-22-23	One or more electives as may be needed to complete 9 courses of 5 quarter hours each above the freshman and sophomore years

CURRICULA FOR THE DEGREE OF BACHELOR OF SCIENCE

For those students whose interest is in the applied sciences and who wish to enter seriously upon the pursuit of the specialized knowledge and techniques of the sciences the University offers several curricula leading to the degree of Bachelor of Science. Each of these provides for specialization in a particular science (or in the work of the Medical School), accompanied by the necessary instruction in related fields of science and a minimal requirement of work in English, foreign language, and other non-scientific fields. These curricula, which are designed to furnish the fundamental instruction for some of the technical professions, are four in number.

Bachelor of Science in Chemistry. Bachelor of Science in Geology
Bachelor of Science in Medicine. Bachelor of Science in Physics

* Instead of Mathematics 1-2-3 a classical language may be chosen provided the student meets by another language the regular requirement in foreign language.

† Lacking sufficient preparation in the chosen language, the student will take the 1-2-3 courses which cover the elementary work and the work of courses 11-12-13.

** If the student presents 2 units of Latin, he will take 11-12-13 (freshman year) and 21, 24-25 (sophomore year). If he presents more than 2 units of Latin, he begins his work in that languages with the course for which he is prepared, making up by electives the courses omitted by reason of this action.

‡ Chemistry 4-5 is not to be taken if Chemistry 1-2-3 has been taken, nor may Physics 21-22-23 be taken if Physics 1-2-3 has been taken.

†† The School of Law recommends that the elective course in English be English 52 (Advanced Composition) and that the electives in history and political science be in English and American history and political science.

If required freshman courses are taken after the student begins his seventh quarter or if required sophomore courses are taken after he begins his tenth quarter, only half credit is allowed.

BACHELOR OF SCIENCE IN CHEMISTRY

Freshman Year

Chemistry 1-2-3
English 1-2-3
*German 11-12-13
Mathematics 1-2-3
Social Science 1-2-3
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Chemistry 31, 42, 41
English 21-22-23
**German 21-22-23
Mathematics 21-22-23 or 31-32-33

Junior and Senior Years

Chemistry 61, 62, 63, 181, 182, 183
Physics 21-22-23
Geology 101, 147
English 59
Botany 41 or Zoology 41
†Elective, 8 full quarter courses

BACHELOR OF SCIENCE IN GEOLOGY

Freshman Year

Required: Geology 21-22-23 or 41-42; English 1-2-3; Mathematics 1-2-3; Social Science 1-2-3; Hygiene 1-2-3; Physical Education 1-2-3

Choose one: *French 11-12-13; *German 11-12-13; *Spanish 11-12-13

Sophomore Year

Chemistry 1-2-3
English 21-22-23
Geography 31-32-33
Mathematics 41, 51, 52

Junior Year

Geology 101, 102, 103
Physics 21-22-23
English 59 and 44 or
**Foreign Language 21-22-23
Elective of 5 hours

Senior Year

Geology 104, 105, 106
Geology 107, 108, 109
††Zoology 41 or Botany 41
Two electives of five hours each

BACHELOR OF SCIENCE IN MEDICINE

The University recommends to each applicant for admission to its School of Medicine that he prepare himself as fully as his age and resources permit. If possible he should first secure a

* Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language.
** If desired, scientific or technical German will be offered in German 24-25-26.
† Of these electives 3 must be in a field in natural science and may be in chemistry (selected from 191, 192, 193; 145, 146, 147; 143; 163, 167a, 167b, 168a; 151, 152, 153). The 5 remaining electives may be taken in any field except Chemistry.
†† In special cases an advanced course in a science other than geology may be substituted.

bachelor's degree, either A.B. or S.B., before beginning his professional study. If this is impracticable, he may secure excellent preparation by completing the academic curriculum, outlined below, leading to the degree of Bachelor of Science in Medicine. The degree is conferred upon the completion of the first year of work offered in our School of Medicine.

NOTE: Students pursuing the academic subjects listed below are hereby notified that the completion of these courses does not necessarily mean admission to our School of Medicine. From the rather long list of applicants are chosen thirty-six who are deemed the most promising material for admission to our School. No arrangement exists for granting the degree of S.B. in Medicine for work in any medical school other than ours. Therefore, in order to secure our S.B. in Medicine, the student must complete the first year of work offered in our School of Medicine and in no other such school. To be eligible for the degree of S.B. in Medicine, at least the last year of pre-medical work must have been done in this institution.

First Year

Chemistry 1-2-3
English 1-2-3
Mathematics 1-2-3
Social Science 1-2-3
*Foreign Language 11-12-13 (French or German)
Hygiene 1-2-3
Physical Education 1-2-3

Second Year

English 21-22-23
*Foreign Languages 21-22-23 (French or German)
Botany 41, Zoology 41, 42 or
Botany 41, Physics 24, 25
Chemistry 31, 42
Elective, 1 course

Third Year

Psychology 21-22-23
Chemistry 61, 62, 63
Zoology 41, 42 or
Physics 24, 25
Elective, 1 course

BACHELOR OF SCIENCE IN PHYSICS

Freshman Year

†Physics 1-2-3, or 21-22-23
English 1-2-3
Mathematics 1-2-3
Social Science 1-2-3
††French or German 11-12-13
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Physics 55, 56 or 52, 42 or 54
English 21-22-23
Math. 31-32-33 or ** 21-22-23
French or ***German 21-22-23

* The intermediate course (11-12-13) in French or German or both are to be taken provided the student shows evidence of adequate preparation; otherwise he takes the elementary courses (1-2-3) in the language or languages. The elementary courses, meeting six hours a week, are designed to cover both the elementary and intermediate work. In case both French and German are elected, the requirement is met in three quarters (courses 1-2-3 or 11-12-13); in case only one language is taken, courses 21-22-23 also must be completed, six quarters in all being required.

† Students who have a grade of A or B in Physics 1 may take Physics 22 and 23 in place of Physics 2 and 3, subject to the approval of the instructor.

†† Lacking adequate preparation, the student must take courses 1-2-3 in French or German.

** If Mathematics 21-22-23 is chosen the student must take in addition an elective course of three hours a week through the year; Mathematics 31-32-33 is recommended.

*** If desired, scientific or technical German will be offered in German 24-25-26.

In the junior and senior years, one who expects to work in industrial physics can specialize in experimental courses, while one interested in theoretical physics can specialize in more mathematical courses. Credit of 192 hours as a minimum is required for graduation.

Junior Year

Physics 52, 53 or 56, 58
Math. 41, 141
Chem. 1-2-3
English 59
Electives, 5 to 8 quarter hours in some field other than Physics

Senior Year

Electives, 3 to 4 courses in some field other than Physics.

Five courses from the following, at least three being in Physics:
Physics 91, 101, 105, 106, 110, 120, 140, 141, 160, 161, 170
Math. 104, 111, 121, 122, 123, 131, 161, 171
Chem. 42, 61, 62, 181, 182, 183

THE SCHOOL OF COMMERCE

Frank Porter Graham, M.A., LL.D., D.C.L., Litt.D., *President*
Robert Burton House, A.M., *Dean of Administration*
Dudley deWitt Carroll, M.A., *Dean*
John Brooks Woosley, Ph.D., *Chairman, Graduate Studies and Research*
Erich Walter Zimmermann, Ph.D., *Chairman, Committee on the Library*

*THE ADMINISTRATIVE BOARD

Sturgis Elleno Leavitt, Ph.D.
Erich Walter Zimmermann, Ph.D.
Earle Ewart Peacock, M.B.A.
John Brooks Woosley, Ph.D.
Corydon Perry Spruill, Jr., A.B., B.Litt. (Oxon.)
Almonte Charles Howell, Ph.D.
Richard J. Mendenhall Hobbs, A.B., LL.B.

GENERAL STATEMENT

Though courses of instruction in economics and in certain business subjects had been offered for many years in the University of North Carolina, not until 1919 was there established a comprehensive, well-organized business curriculum. In that year, the Legislature, in conformity with the recommendations of the President and the Board of Trustees, enacted the legislation which resulted in the immediate organization of the School of Commerce. The School occupies a place in the University organization which is coordinate in standing and equipment with the College of Arts and Sciences.

The undergraduate course of study, leading to the degree of Bachelor of Science in Commerce, covers a period of four years and is designed to give a foundation of broad and general culture, and, at the same time, supply a definite and practical training to those who intend to engage in any of the great lines of industrial and commercial activity. For those desiring more intensive specialization, the School of Commerce offers graduate courses leading to the degree of Master of Science in Commerce.

AIM AND PURPOSE

The phenomenal industrial development of the South in recent years has produced an imperative need for trained business men. The School of Commerce in a large sense is the expression of the University's desire to serve this special need of its own particular section. To this end substantial support has

* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

been accorded the School both by the University and the State as a whole. In consequence the School has been provided with a large and able corps of instructors, with spacious quarters in Bingham Hall, and thoroughly modern teaching facilities.

It is the purpose of the School of Commerce to provide its students with as thorough and scientific business training as it is possible to give within the range of the subject which it attempts to cover. Its teaching policy assumes that such training should consist not only of the requisite understanding of the principles and methodology which govern the organization and administration of typical business enterprises, but in addition an understanding of the problems and the larger relationships of the economic organization as a whole. In his attempt to master the technical and the vocational aspects of business, the student will not be permitted to lose sight of the social and cultural.

TEACHING POLICY

Wherever possible, the plan is followed of presenting the subject-matter of the various courses from the point of view of the executive, always bearing in mind that the executive's field of interest includes the broad outside relationships as well as the internal administration of his business. Adherence to this common point of view prevents confusion in the mind of the student and enables him to place the problems and practices of business in their true perspective.

Within the short space of time at his disposal, it is impossible for the student to investigate in detail the entire field of business. It is therefore the policy of the School of Commerce to supplement the general survey which is required of every student with a more intensive study of that portion of the field which is of especial interest to him. To this end there have been prepared for the student certain groupings of closely related courses. The groupings have been made in such a way as to correspond to certain major functions which must be performed in the successful administration of a business enterprise.

These functions may be designated as follows: (1) production; (2) finance; (3) marketing and selling; (4) management of personnel; (5) risk and insurance; (6) accounting.

In addition to these groups, which have been constructed to conform with the major business functions, certain others have also been provided. The first of these offers special study in the field of foreign trade. It is so devised as to be of value not only to those intending to engage in some branch of export or import trade, but also to be of material aid to those looking forward to careers in connection with the diplomatic and consular service.

SCOPE OF SPECIALIZATION

Specialization in the manner here indicated, however, does not begin until the senior year, except in the accounting, marketing, and merchandising groups. The School of Commerce accepts the principle that a broad and thorough training in fundamentals, as well as some maturity of mind, should precede any high degree of specialization. Whether the educational process be viewed as a training of the mental faculties, or as the acquisition of a fund of knowledge, it is equally imperative that the materials of study be definite and compact. Arrangement and treatment must be so designed as to assure results which are cumulative and which have continuity of direction.

To this end the undergraduate curriculum of the School of Commerce is arranged in logical sequence, with the same requirements imposed upon virtually all candidates for degrees until the senior year is reached. During his freshman and sophomore years in the General College the student is required to follow a path of study which closely parallels the liberal arts course. The first year's work includes English composition, mathematics, social science, biological science, and a modern language. In the second year are courses in general economics, industrial history, English and American Literature, a natural science, and a continuance of the chosen modern language.

In his junior year the student devotes most of his time to required courses in economics, commerce, psychology, and government, which include money and banking, business organization, accounting, economic statistics, general psychology, and American federal government.

In the senior year specialization begins through the election by the student of his preferred group of courses from the list outlined above. It is to be noted that the freedom to elect does not apply to courses regarded singly, but only to courses as they are arranged in more or less standardized groups. Having chosen a given group, the student is expected to satisfy its requirements in full unless a substitute program has been submitted to and approved by the Administrative Board of the School.

In all of the groups two courses in business law are required, and one course on the relationship between government and business. A fourth requirement common to all groups is a choice either of the course in Theories of Economic Reform, or of the course in Labor Problems. This leaves in each group from five to six courses which constitute the subject matter of specialization.

From the preceding survey of the undergraduate curriculum it is apparent that those students who are desirous of securing

the benefits of thorough specialized training and intensive research work should continue in the University for at least one year of graduate study.

SPECIAL STUDENTS

There are many young people already in business who feel the need of additional special training but who are unable to spend the full four years at the University, or who cannot provide proper entrance credits. Recognizing this, the School of Commerce will admit students of twenty-one years of age or over, who cannot fulfill the entrance requirements, as special students but not as candidates for degrees. Such students must supply satisfactory evidence of their ability to profit from the courses. Such evidence must include testimonials from former employers certifying to the term, nature, and quality of their work. A personal interview with the Dean also is recommended. Special students are admitted on probation.

LIBRARY FACILITIES

In addition to the facilities afforded by the general library of the University, the School of Commerce is equipped with its own special collection of materials. In the latter are contained a large number of the economic and business publications of recent years which may be of value to the student. An annual fund of about $2,500 assures that the collection will be well maintained and kept up-to-date.

Especially noteworthy is the collection of periodical publications. Most of the important periodicals in the general field of business and finance are regularly received. In addition, the School of Commerce is a regular subscriber to over fifty trade journals, and to the statistical services of Moody, Brookmire, Gibson, the Babson Institute, and the Standard Statistics Company. The Harvard and Cambridge Economic Surveys also are provided.

A full-time librarian is in charge and is prepared to aid students in the collection of such materials for research work as may not be currently available in the University. Special library privileges are accorded graduate students who have access to the stack rooms and private desk space.

LECTURES AND OBSERVATION TRIPS

Students are expected to take advantage of the frequent opportunities to hear lectures offered by prominent business men who are invited to the University for this purpose. These lectures will prove of great value to the student in furthering his acquaintance with the practical aspects of business.

From time to time the classes in business subjects make visits to neighboring factories and other types of business institutions for the purpose of making first-hand studies of organization and administrative methods.

BUSINESS CLINICS

In addition to formal lectures, the School from time to time arranges for recognized business leaders to come to the University for informal discussion of current business problems in their respective fields. The virtue of this arrangement is that the informal discussion of problems in a particular field will give the student a clearer understanding of the actual everyday aspects of business.

STENOGRAPHY

No credit toward the degree is given for stenography but every student is urged to acquire facility in the use of it before graduation. Instruction in this subject is not offered by the University but can be secured in Chapel Hill in a private school.

SOCIETIES

Beta Gamma Sigma, recognized by the American Association of Collegiate Schools of Business as the national scholarship fraternity in Commerce and Business, maintains a chapter, Alpha of North Carolina, at the University. Eligible for membership in this organization are those students ranking scholastically in the highest tenth of the Senior Class and the highest two per cent of the Junior Class.

STANDARDS OF WORK

The School was admitted to membership in the American Association of Collegiate Schools of Business in 1923. This is an organization formed for the promotion of thorough-going, scientific training for the business profession. It maintains high standards of membership based on the number and training of the faculty, the thoroughness of the work, the length and breadth of the curriculum, the number of students, the financial backing of the School, and the facilities for carrying on the work.

STUDENT HABITS

Training for business, if it is to be worthy of the name, should include at least two elements: first, an understanding of the principles and processes of business; and second, the practice of habits of work essential to business success. Observation appears to justify the conclusion that promptness, industry, systematic application, and honest performance are quite as vital to mastery

in the business world as an understanding of the nature of industrial and commercial phenomena. It is wasteful, then, to allow students to proceed far in this field if they are unwilling to fashion their habits in conformity with these essential requirements. The policy of the School will be to drop from its rolls any student who after a reasonable time fails to respond to the above standards. Attendance on classes and promptness and regularity in performing assigned work are judged in terms of the above principle.

*ADMISSION

Admission to the School of Commerce is based upon the satisfactory completion of the first two years of college work given in the General College of this University or its equivalent certified by another institution of recognized academic standing.** By order of the Board of Trustees women may enter the School of Commerce on the same terms as men. Based on fifteen entrance units which conform to the admission requirements of the General College, the subjects covered in the first two years are as follows:

Freshman Year

English 1-2-3
Mathematics 4-5-6
Social Science 1-2-3
Natural Science 1-2-3c
†French 11-12-13, or
†Spanish 11-12-13, or
†German 11-12-13
Hygiene 1-2-3
Physical Educ. 1-2-3

Sophomore Year

English 21-22-23
Economics 21-22-23
Economics 11
Economics 35
French 21, 24-25, or
Spanish 21, 24-25, or
German 21-22-23
Zoology 41, 42, or
Botany 41, 43, or
Chemistry 1-2-3, or
Physics 21-22-23, or
Geology 21-22-23

Satisfactory completion of the first two years of college work is interpreted to mean that at least half the credits are of C grade or better (C on a percentage basis covers the range from 80% to 90% with 70 as a minimum passing grade).

CURRICULA LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN COMMERCE

The degree of Bachelor of Science in Commerce will be conferred upon students who complete any one of the following curricula and in addition pass a comprehensive examination in

* The outline of the work of the first two years is shown since the required work differs in some particulars from that of the College of Arts and Sciences.

** See footnote on page 68 for fee to be sent with an application for admission.

† The student who is not qualified to pursue the intermediate courses may take courses numbered 1-2-3, which cover both the elementary and intermediate work and prepare one to pursue the advanced courses.

the field of economics and commerce. An additional requirement for graduation is that the grades in at least half the work of a student shall be C or higher.

In order that the junior and senior subjects may be chosen in such a way as to constitute a coherent and comprehensive whole, rather than an unrelated and scattered series, the following programs have been devised. Each student is expected to elect at the beginning of his junior year the group which best serves his needs and to adhere to it. However, students whose interests do not coincide with any of the following groups are invited to submit an alternative program for the approval of the Administrative Board of the School.

I. PRODUCTION MANAGEMENT

Junior Year

Commerce 51 ..... Business Organization
Commerce 71-72 ..... Accounting Principles
Economics 81-82 ..... Principles of Money and Banking
Economics 170 ..... Economic Statistics
Political Science 51 ..... Government of the United States
Education 61c ..... General Psychology
*Elective outside Department of Economics and Commerce.

Senior Year

Commerce 91-92 ..... Business Law
Commerce 151 ..... Production Management
Commerce 154 ..... Production Management: Theories and Practices
Commerce 155 ..... Personnel Management
Select one from the following:
Commerce 157 ..... Time and Motion Study
Commerce 173 ..... Cost Accounting
Commerce 191 ..... Corporation Finance
Economics 131 ..... Economic Theory
Economics 191 ..... An Introduction to the Labor Problem
or
Economics 195 ..... Theories of Economic Reform
Economics 197 ..... Government and Business
Select one course from the following:
Economics 141 ..... Public Finance
*English elective, *Philosophy elective, *Political Science elective.

II. BANKING AND FINANCE

Junior Year

Commerce 51 ..... Business Organization
Commerce 71-72 ..... Accounting Principles
Economics 81-82 ..... Money and Banking
Economics 170 ..... Economic Statistics
Political Science 51 ..... Government of the United States
Education 61c ..... General Psychology
*Elective outside Department of Economics and Commerce.

* The elective must receive the approval of the Dean.

Senior Year

Commerce 91-92 ..... Business Law
Commerce 181 ..... Advanced Banking and Foreign Exchange
Commerce 191 ..... Corporation Finance
Commerce 195 ..... Investments
Economics 131 ..... Economic Theory
Economics 185 ..... Business Cycles
Economics 191 ..... An Introduction to the Labor Problem
or
Economics 195 ..... Theories of Economic Reform
Economics 197 ..... Government and Business
Select one course from the following:
Economics 141 ..... Public Finance
*English elective, *Philosophy elective, *Political Science elective.

III. MARKETING, MERCHANDISING, ADVERTISING

Junior Year

Commerce 51 ..... Business Organization
Commerce 71-72 ..... Accounting Principles
Economics 81-82 ..... Money and Banking
Economics 124 ..... Principles of Marketing
Economics 170 ..... Economic Statistics
Education 61c ..... General Psychology
*Elective outside Department of Economics and Commerce.

Senior Year

Select three from the following:
Commerce 61 ..... Sales Management
Commerce 161 ..... Advertising
Commerce 163 ..... Advanced Course in Marketing
Commerce 165 ..... Retail Distribution
Commerce 91-92 ..... Business Law
Economics 131 ..... Economic Theory
Economics 191 ..... An Introduction to the Labor Problem
or
Economics 195 ..... Theories of Economic Reform
Economics 197 ..... Government and Business
Political Science 51 ..... Government of the United States
Select one course from the following:
Economics 141 ..... Public Finance
*English elective, *Philosophy elective, *Political Science elective.

IV. PERSONNEL MANAGEMENT

Junior Year

Commerce 51 ..... Business Organization
Commerce 71-72 ..... Accounting Principles
Economics 81-82 ..... Money and Banking
Economics 170 ..... Economic Statistics
Political Science 51 ..... Government of the United States
Education 61c ..... General Psychology
*Elective outside Department of Economics and Commerce.

* The elective must be approved by the Dean.

Senior Year

Commerce 91-92 .....Business Law
Commerce 151 .....Production Management
Commerce 155 .....Personnel Management
Commerce 156 .....Personnel Problems
Economics 131 .....Economic Theory
Economics 191 .....An Introduction to the Labor Problem
Economics 197 .....Government and Business
Psychology 135 .....Personnel Psychology
Select one course from the following:
Economics 141 .....Public Finance
*English elective, *Philosophy elective, *Political Science elective.

V. RISK-BEARING AND INSURANCE

Junior Year

Commerce 51 .....Business Organization
Commerce 71-72 .....Accounting Principles
Economics 81-82 .....Money and Banking
Economics 170 .....Economic Statistics
Political Science 51.....Government of the United States
Education 61c .....General Psychology
*Elective outside Department of Economics and Commerce.

Senior Year

Commerce 91-92 .....Business Law
Commerce 61 .....Sales Management
or
Commerce 191 .....Corporation Finance
Commerce 121 .....Insurance: Life
Commerce 122 .....Insurance: Fire, Marine, Bond, and Title
Economics 121 .....Risk and Risk-Bearing
Economics 131 .....Economic Theory
Economics 191 .....An Introduction to the Labor Problem
or
Economics 195 .....Theories of Economic Reform
Economics 197 .....Government and Business
Select one course from the following:
Economics 141 .....Public Finance
*English elective, *Philosophy elective, *Political Science elective.

VI. FOUNDATION FOR LAW

Junior Year

Commerce 51 .....Business Organization
Commerce 71-72 .....Accounting Principles
Economics 81-82 .....Money and Banking
Economics 170 .....Economic Statistics
Political Science 51.....Government of the United States
Education 61c .....General Psychology
*Elective outside Department of Economics and Commerce.

---

* This elective must be approved by the Dean.

Senior Year

Commerce 191 .....Corporation Finance
Economics 131 .....Economic Theory
Economics 141 .....Public Finance
Economics 195 .....Theories of Economic Reform
Economics 197 .....Government and Business
Political Science 81.....American State Government

Select four additional courses offered by the Department of Economics and Commerce.

VII. ACCOUNTANCY

Junior Year

Commerce 51 .....Business Organization
Commerce 71-72 .....Accounting Principles
Commerce 171 .....Advanced Accounting
Economics 81-82 .....Money and Banking
Economics 170 .....Economic Statistics
Education 61c .....General Psychology
*Elective outside Department of Economics and Commerce.

Senior Year

Commerce 91-92 .....Business Law
Commerce 173 .....Cost Accounting
Commerce 175 .....Auditing
Commerce 191 .....Corporation Finance
Economics 131 .....Economic Theory
Economics 191 .....An Introduction to the Labor Problem
or
Economics 195 .....Theories of Economic Reform
Economics 197 .....Government and Business
Political Science 51.....Government of the United States
Political Science 81.....American State Government
or
Political Science 132.....American Municipal Government
or
Political Science 134.....County Government and Administration

VIII. FOREIGN TRADE AND THE CONSULAR SERVICE

NOTE: It should be understood that this program merely lays the foundation for more advanced and specialized study prerequisite to the proper preparation of candidates for the diplomatic and consular service. One general course in Foreign Trade Technique cannot be expected to substitute for an apprenticeship in that field, but it should materially shorten it.

Junior Year

Commerce 51 .....Business Organization
Commerce 71-72 .....Accounting Principles
Economics 81-82 .....Money and Banking
Economics 170 .....Economic Statistics
Political Science 51.....Government of the United States
Education 61c .....General Psychology
*Elective outside Department of Economics and Commerce.

* This elective must be approved by the Dean.

Senior Year

Commerce 91-92 .....Business Law
Commerce 169 .....Foreign Trade Practice
Commerce 181 .....Advanced Banking and Foreign Exchange
Economics 124 .....Principles of Marketing
Economics 131 .....Economic Theory
Economics 161 .....Theory of International Trade
Economics 191 .....An Introduction to the Labor Problem
or
Economics 195 .....Theories of Economic Reform
Economics 197 .....Government and Business
Political Science 52.....The Governments of Europe

IX. GENERAL COURSE

Junior Year

Commerce 51 .....Business Organization
Commerce 71-72 .....Accounting Principles
Economics 81-82 .....Money and Banking
Economics 170 .....Economic Statistics
Political Science 51.....Government of the United States
Education 61c .....General Psychology
*Elective outside Department of Economics and Commerce.

Senior Year

Commerce 91-92 .....Business Law
Economics 131 .....Economic Theory
Economics 121 .....Risk and Risk-Bearing
or
Economics 185 .....Business Cycles
Economics 191 .....An Introduction to the Labor Problem
or
Economics 195 .....Theories of Economic Reform
Economics 197 .....Government and Business
Select one course from the following:
Economics 141 .....Public Finance
*English elective, *Philosophy elective, *Political Science elective. Select three additional courses offered by the Department of Economics and Commerce.

X. COMBINED COURSE IN COMMERCE AND LAW

The University offers a combined curriculum which leads to the degree of S.B. in Commerce at the end of four years and LL.B. at the end of six years.

The first two years of this combined course are given in the General College with the addition of Political Science 51 and

* This elective must be approved by the Dean.

English 45 or 52 in the second year. The third year is given in the School of Commerce and includes the following courses:

Commerce 51 .....Business Organization
Commerce 71-72 .....Accounting Principles
Economics 81-82 .....Money and Banking
Economics 131 .....Economic Theory
Economics 191 .....An Introduction to the Labor Problem
or
Economics 195 .....Theories of Economic Reform
Psychology 21-22-23.....General Psychology
Select one additional course offered by the Department of Economics and Commerce.

Upon completion of the above program with grades of C or better on at least half the work, the student enters the School of Law. The degree of S.B. in Commerce is conferred at the end of the fourth year (first year in Law) provided the student has passed all the work of the first year of Law to the satisfaction of the School of Law.

PART FOUR

ACADEMIC DEPARTMENTS

DESCRIPTIONS OF COURSES

In this section are listed and described all courses offered in the regular sessions of the University except those in the professional schools of Law, Medicine, Pharmacy, and Library Science. For courses in these schools see the special bulletins.

In footnotes to each Department are shown the various requirements for majors.

NOTES ON THE METHOD OF NUMBERING AND COUNTING COURSES

The work of the University, except in the School of Law, and in the first year in the School of Medicine, is arranged and offered on the quarter system, the regular session being divided into three approximately equal parts called the fall, winter, and spring quarters. The summer session of twelve weeks is divided into two terms of six weeks each.

Work is valued and credited by quarter hours, *one such hour being allowed for each classmeeting a week for a quarter, laboratory or field work counting one hour for each two hours of work in laboratory or field. In the following announcements of courses the numbers in parenthesis following the descriptive titles show the credits allowed in quarter hours.

In the event that required freshman subjects are taken after a student begins his seventh quarter or required sophomore subjects after he begins his tenth quarter, such subjects carry half credit only. This rule applies to the class registered as freshmen in the year 1925-1926 and to all later registrants.

**Courses numbered from 1 to 10 are for freshmen only, from 11 to 20 are ordinarily for freshmen and sophomores, from 21 to 40 for sophomores, from 41 to 50 for sophomores (but open to juniors or seniors), from 51 to 100 for juniors and seniors, from 101 to 200 for advanced undergraduates and graduates. Undergraduates may not take courses numbered above 200 except by special permission of the instructor in the course *and* the head of the department. Courses numbered from 1 to 100 carry no credit towards any advanced degree.

Courses numbered 201-400 are not described in this abridged catalogue.

* In the case of elementary course in foreign language taken by those who do not qualify for the regular freshman courses of collegiate grade the work is counted towards a degree as of the same value as the regular freshman courses.

** Courses in chemistry for undergraduates are grouped by decades under the headings inorganic, analytical, organic, etc.

*DEPARTMENT OF ART

Assistant Professor: Russell T. Smith.
Visiting Professor: Clemens Sommer.
Visiting Lecturer: William Meade Prince.
Instructor: Arnold Borden.

Courses for Undergraduates

41. THE HISTORY AND APPRECIATION OF MEDIEVAL ART (3).

A survey of the architecture, sculpture, and painting of the Christian world from the beginnings of Christianity through the Gothic period. The development of Early Christian, Byzantine, Romanesque, and Gothic art will be discussed. A lecture course with lantern slides. *Three hours a week, fall quarter.* Professor Smith; Mr. Borden.

42. THE HISTORY AND APPRECIATION OF RENAISSANCE ART (3).

A survey of the architecture, sculpture, and painting of the Renaissance in Europe from the end of the Gothic period through the Baroque period in Italy, France, Spain, the Netherlands, Germany, and England. A lecture course with lantern slides. *Three hours a week, winter quarter.* Professor Smith; Mr. Borden.

43. THE HISTORY AND APPRECIATION OF MODERN ART (3).

A survey of the architecture, sculpture, and painting in the western world from the end of the Renaissance to the present day. A lecture course with lantern slides. *Three hours a week, spring quarter.* Professor Smith; Mr. Borden.

44. ELEMENTARY DRAWING (3).

A general studio course which will entail criticism of representation and design in various black and white mediums such as pencil, crayon, pen and ink, block-printing, etching, and drypoint. When possible, students will work from nature. *Nine studio hours a week, fall quarter. Laboratory fee, $5.00.* Professor Smith; Mr. Borden.

45. ELEMENTARY COLOR (3).

A general studio course which will entail criticism of representation and design in various color mediums such as watercolor, oil, tempera, and gouache. When possible, students will work from nature. *Nine studio hours a week, winter quarter. Laboratory fee, $5.00.* Professor Smith; Mr. Borden.

---

* The courses in Art are designed to fill two functions in the University program: (1) to give the student with a major in Art a well-rounded knowledge of the historical aspect balanced by a grounding in the technical and creative side; and (2) to give students in other departments the opportunity to study art for its broadening value in the liberal arts program.

The student planning an A.B. with a major in Art must complete Art 41-42-43, and Art 44-45-46 before the junior year. Regular courses in the General College, postponed in order that these courses in Art may be taken, must be completed at some later time.

The undergraduate major in Art consists of from thirty to forty quarter hours beyond the freshman-sophomore requirements. These credit hours should be divided equally between studio and history courses. A student desiring to continue work in architecture, sculpture, or painting should include at least three history courses in his particular field and at least three courses divided between the other two fields. Studio work may be developed in this same way with particular stress given to one phase of art as worked out with the head of the Department.

46. ELEMENTARY COMPOSITION, LETTERING, AND PERSPECTIVE (3).

A studio course dealing primarily with the study of composition, with criticism in one or more of the mediums in which the student has shown facility. In the latter part of the course, lettering will be studied from the artistic and historical sides, and the elements of perspective will be studied as related to architecture and painting. *Nine studio hours a week, spring quarter. Laboratory fee, $5.00.* Professor Smith; Mr. Borden.

51. MEDIEVAL ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of medieval architecture in the Christian world: Early Christian, Byzantine, Romanesque, and Gothic. The course will consider the significance of specific buildings in the development of the various styles and the relation of these styles to the artistic, social, political, and religious conditions of the period. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, fall quarter.* Professor Smith.

52. RENAISSANCE ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of Renaissance architecture in Europe with particular emphasis on the architecture of Italy. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, winter quarter.* Professor Smith.

53. MODERN ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of architecture in the western world from the end of the Renaissance to the present day with emphasis on the architecture of the late nineteenth and early twentieth centuries. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, fall quarter.* Professors Smith, Sommer.

61. MEDIEVAL SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of the sculpture of medieval Europe with emphasis on the content and artistic merit of the works discussed. The major part of the course will deal with architectural sculpture of the period. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, fall quarter.* Dr. Sommer.

62. RENAISSANCE SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of Renaissance sculpture in all European countries: its background, its flowering, and its decadence. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, fall quarter.* Professor Sommer.

63. MODERN SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of European and American sculpture from the end of the Renaissance to the present day. The background and development of contemporary trends will be considered. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, spring quarter.* Professor Sommer.

71. ITALIAN RENAISSANCE PAINTING (3). Prerequisite, Art 41-42-43, or equivalent.

A study of painting in Italy during the fifteenth and sixteenth centuries and its relation to later developments in art. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, winter quarter.* Professor Sommer.

72. SPANISH PAINTING (3). Prerequisite, Art 41-42-43, or equivalent.

A study of Spanish painting beginning with the Middle Ages and culminating with the work of Velasquez and his contemporaries. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, winter quarter.* Professor Smith.

73. FRENCH PAINTING (3). Prerequisite, Art 41-42-43, or equivalent.

A study of French painting from 1600 to the present day. The course will attempt to place the work of the French School as one of the great art movements of our era. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, winter uarter.* Professors Smith, Sommer.

81. ADVANCED FORM AND COLOR (3). Prerequisite, Art 44-45-46, or equivalent.

A studio course dealing with the study of pictorial values and representation, with criticism in advanced problems of drawing and painting. *Nine studio hours a week, winter quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

82. COMPOSITION: PORTRAIT AND LANDSCAPE (3). Prerequisite, Art 44-45-46, or equivalent.

A studio course dealing with advanced composition in portrait and landscape painting. *Nine studio hours a week, spring quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

Courses for Graduates and Advanced Undergraduates

101, 102, 103. SPECIAL STUDIES (3 each). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

These courses are designed for advanced study in the history of art, taking up special fields in detail through reading assignments, weekly reports, and occasional lectures. Assistance may be given to competent juniors, seniors, and graduates who propose further study or research in the field. These courses may be taken separately. *Three hours a week, fall, winter, and spring quarters, on demand.* Professors Smith, Sommer; Mr. Borden.

104. SURFACE ANATOMY (3). Prerequisite, Art 44-45-46, or equivalent. Not counted for graduate credit.

This course, given under the direction of the Department of Anatomy of the School of Medicine, will consist of a series of lectures supplemented by textbook study, the use of anatomical models and charts, and occasional demonstrations on the living model. *Three hours a week, fall quarter. Laboratory fee, $2.00.* Professor Low.

105. MURAL COMPOSITION (3). Prerequisite, Art 81, 82, and 104. Not counted for graduate credit.

An advanced studio course in mural design and figure composition. *Nine studio hours a week, winter quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

106. PAINTING PROCESSES (3). Prerequisite, Art 81, or equivalent. Not counted for graduate credit.

An advanced studio course rounding out the study of the techniques of painting in oil, watercolor, egg tempera, and pastel. Problems in landscape, portrait, and still life will be presented. *Nine studio hours a week, fall quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

107. ADVANCED COMPOSITION (3). Prerequisite, Art 81, 82, or equivalent. Not counted for graduate credit.

A studio course designed to complete the work of the student with a major in art. Projects of original design will be worked out in a chosen field of art expression. The work of other artists will be analyzed for composition and technique. Students will prepare for final exhibition of their work in group or one-man shows. *Nine studio hours a week, spring quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

150. AMERICAN ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A comprehensive study of architecture in America: aboriginal Indian architecture, Colonial architecture, and the later movements in the United States up to the present day. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, spring quarter.* Professor Smith.

160. AMERICAN SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A comprehensive study of American sculpture from the Colonial period to the present day. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, spring quarter.* Mr. Borden.

170. MODERN PAINTING (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A study of the movements in western painting since 1800 with particular stress on the trends of the late nineteenth and early twentieth centuries. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, spring quarter.* Professor Sommer.

171. FOUR PAINTERS: RAPHAEL, DURER, REMBRANDT, AND VELASQUEZ (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

An intensive study of the work of four great painters of different schools. Through comparison of their work, the course will take up the relative merits of each man, his technique, and his particular qualifications for greatness. Illustrated lectures. (Omitted 1939-1940 and 1940-1941.)

172. AMERICAN PAINTING (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A comprehensive study of painting in America from the Colonial period to the present day: its background, its achievements, and its future. Illustrated lectures. (Omitted 1939-1940 and 1940-1941.)

180. THE HISTORY OF GRAPHIC ARTS (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A study of the development of etching, engraving, block-printing, lithography, and other methods of print-making. Illustrated lectures. (Omitted 1939-1940 and 1940-1941.)

BIBLICAL HISTORY AND LITERATURE

Professors: *J. P. Harland, A. C. Howell, G. A. Harrer (Chairman).

Associate Professor: P. H. Epps.

Courses for Undergraduates

58. GREEK NEW TESTAMENT (5). Prerequisite: Greek 21-22-23 or equivalent.

One or more of the Gospels will be read, with attention to the grammar, diction, and style of the New Testament writers. *Five hours a week, spring quarter.* (See Classics 58). Professor Epps.

85. ARCHAEOLOGY AND THE BIBLE (5).

The results of the explorations and excavations in Palestine will be studied for the light they throw on Biblical History. Attention will be given to the Art and Civilization of the Peoples of the Old Testament, particularly of the Pre-exilic Period. *Five hours a week, fall quarter.* (See Classics 85). Professor Harland.

86. BIBLICAL HISTORY FROM 536 B.C. TO 400 A.D. (3).

An historical approach which will sketch (a) Jewish history and religious thought from the restoration to the destruction of Jerusalem, (b) the rise of Christianity, and (c) Christianity's coming to terms with Judaism, Hellenism, and the Roman Empire. *Three hours a week, winter quarter.* Professor Epps.

87. LITERARY ASPECTS OF THE BIBLE (5).

A study of the literary aspects of the Bible in English translation, with discussion of types and forms of literature, historical development of the Bible, the principal translations, and the influence of the Bible on English literature and on the language. *Five hours a week, spring quarter.* (See English 87). Professor Howell.

Courses for Graduates and Advanced Undergraduates

158. GREEK NEW TESTAMENT (5). Prerequisite: Greek 21-22-23 or equivalent.

The Acts of the Apostles, with selections from the Epistles, will be read. Attention is given also to textual criticism, and to the sources and history of the Greek text. *Five hours a week, spring quarter.* (See Classics 158). Professor Epps.

* Absent on leave, spring quarter, 1938-1939.

*DEPARTMENT OF BOTANY

Professors: W. C. COKER, H. R. TOTTEN, J. N. COUCH.
Assistant Professor: J. E. ADAMS.
Teaching Fellow: H. T. COX.
Assistants: ALMA HOLLAND, LAURIE STEWART, LELAND SHANOR, J. A. DOUBLES, G. A. CHRISTENBURY, ALMA WHIFFEN, L. S. OLIVE, MARY WILLIAMS WARD, GWENDOLYN BURTON, A. W. ZIEGLER.

Courses for Undergraduates

1. (NATURAL SCIENCE 1). ELEMENTS OF PLANT BIOLOGY (4). Freshman elective; required for the School of Commerce.

An introduction to the study of plants and a survey of the plant kingdom. Emphasis is placed upon the broad biological aspects of the subject and the economic relationships between green plants, bacteria, pathogenic fungi, and man. *Three lecture and two laboratory hours a week, fall, winter, or spring quarter. Laboratory fee, $2.00.* Professors Couch, Adams; Assistants.

2. (NATURAL SCIENCE 2). ELEMENTS OF ANIMAL BIOLOGY (4). Freshman elective; required for the School of Commerce. See Department of Zoology.

3a. (NATURAL SCIENCE 3a). ELEMENTS OF HUMAN PHYSIOLOGY (4). Freshman elective. See Department of Medical Sciences.

3b. (NATURAL SCIENCE 3b). ELEMENTS OF GEOLOGY (4). Freshman elective. See Department of Geology.

3c. (NATURAL SCIENCE 3c.) GEOGRAPHY (4). Freshman requirement for the School of Commerce. See Department of Geology.

41. GENERAL BOTANY (6).

An introduction to the structure, physiology, and classification of plants. Lectures with laboratory and field work. *Four lecture and four laboratory or field trip hours a week, fall or spring quarter. Laboratory fee, $4.00.* Professors Coker, Totten, Adams; Assistants.

(This course is given in the first term of the Summer Session as Botany s41.)

42. PHARMACEUTICAL BOTANY AND MICROSCOPICAL PHARMACOGNOSY (3). Prerequisite, General Botany. Required of students in the second year in the School of Pharmacy; elective for candidates for Bachelor of Science; in case of candidates for Bachelor of Arts credit is restricted to students preparing to study medicine and those whose major is to be botany.

---

* For the A.B. with major in Botany, six courses of the level of 41 or higher are required, but, with the consent of the Department, this number may be reduced by certain courses in Botany taken in the General College; 1 course in Bacteriology and 1 in Zoology may, with consent of the Department be considered as part of the major. There are also required 6 courses in allied sciences, which shall include two 5- or 6-hour quarter courses in each of the following sciences, unless the equivalent has been taken in the General College (it is assumed that at least two such courses would have been taken): Zoology, Chemistry, Physics, Geology. Six courses in Departments outside the Division of the Natural Sciences are required.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 127.

The histology of drug plants; the structure of their parts and contents; the localization and identification of crystals, starches, mucilages, gums, oils, resins, glucosides, alkaloids, etc.; microscopical study and identification of crude drugs and their adulterants and some study and identification of their powders. *One lecture and four laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Totten; Assistants.

43. SEED PLANTS (6). Prerequisite, General Botany.

A continuation of general botany, with more advanced work in the structure and classification of seed plants. Special attention is given to the study of the local flora, and of the introduced ornamental plants found in the Arboretum, with some work in the propagation of cultivated plants. *Three lecture and six laboratory or field work hours a week, spring quarter. Laboratory fee, $4.00.* Professor Totten; Assistant.

(This course is given in the second term of the Summer Session as Botany s43.)

Courses for Graduates and Advanced Undergraduates

103. ALGAE (5 or 2½). Prerequisite, General Botany.

A study of the morphology and classification of the algae. Lectures, reports, laboratory and field work. The subject may be continued under the same number for more than one quarter as the subject advances, credit being given for each repetition. *Two lecture or report and six laboratory or field work hours a week, spring quarter and the first term of the Summer Session. Laboratory fee, $4.00.* Professor Couch.

111, 112, 113. FUNGI (5 each quarter). Prerequisite, General Botany.

Studies in the taxonomy, morphology, and physiology of the fungi. Special attention is given to the methods of growing fungi in pure culture. The Phycomycetes (111), Ascomycetes (112) and Basidiomycetes (113) will be offered in successive quarters. In the Summer Session the three groups will be offered in successive summers. Lectures, reports, laboratory and field work. *Two lecture or report and six laboratory or field trip hours a week, fall, winter, and spring quarters, and equivalent hours in the first term of the Summer Session. Laboratory fee, $4.00 a quarter.* Professor Couch.

121. LIVERWORTS (5). Prerequisite, General Botany.

A study of the structure, growth, and classification of the liverworts. *Two lecture or report and six laboratory or field work hours a week, winter quarter, and equivalent hours in the first term of the Summer Session if there is sufficient demand. Laboratory fee, $4.00.* Professor Couch.

133. MOSSES (5). Prerequisite, General Botany.

A study of the structure, growth, and classification of the mosses. *Two lecture or report and six laboratory or field work hours a week, spring quarter. Laboratory fee, $4.00.* Professor Couch.

141. FERNS (5). Prerequisite, General Botany.

A study of the structure, growth, and classification of the ferns. *Two lecture or report and six laboratory or field work hours a week, fall quarter. Laboratory fee, $4.00.* Professor Coker; Miss Holland.

142. ADVANCED PHARMACOGNOSY (3). Prerequisite, General Botany and Botany 42. Credit in the college is restricted in the same manner as credit for Botany 42.

Advanced study of vegetable drugs; general methods in microanalysis of powdered drugs; preparation of materials for study; microanalysis of typical drugs and their adulterants and mixtures. *One lecture and four laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Adams.

151, 153, s154. ADVANCED WORK IN THE STRUCTURE AND CLASSIFICATION OF SEED PLANTS (5 each quarter). Prerequisite, General Botany and Botany 43 or the equivalent.

For each of these courses the student is required to collect, prepare herbarium specimens, and classify two plants each from twenty families of seed plants, with notes on the families and sketches to show the principal characteristics of one plant in each of these families. *Two conferences a week with the instructor, fall and spring quarters, and equivalent hours in the second term of the Summer Session. Laboratory fee, $4.00.* Professor Totten.

s155. DENDROLOGY (5 or 7½). Prerequisite, General Botany and Botany 43 or the equivalent.

A taxanomic study of the woody plants of the southeastern states, with extensive field work. *Equivalent of ten or fifteen lecture or report and laboratory or field work hours a week, second term of the Summer Session if there is sufficient demand. Laboratory fee, $4.00.* Professor Totten.

156. PLANT GEOGRAPHY (3). Prerequisite, General Botany and Botany 43 or the equivalent.

Discussion of the principles and problems of the geographic distribution of plants. *Three lecture or report hours a week, fall quarter.* Professor Adams.

157. PLANT ANATOMY (5). Prerequisite, General Botany and Botany 43 or the equivalent.

Introduction to the developmental anatomy of vascular plants; with some consideration of the phylogenetic aspects of the subject; consideration of and practice in methods of anatomical and cytological microtechnique. *Two lecture or report and six laboratory hours a week, spring quarter, and equivalent hours in the first term of the Summer Session. Laboratory fee, $4.00.* Professor Adams.

162. STUDIES IN THE HISTORY OF BOTANY (3). Prerequisite, two courses in Botany.

Readings and reports. This course may continue for more than one year as the subject advances, credit being given for each repetition. *Three hours a week, winter quarter.* Professor Coker; Miss Holland.

*DEPARTMENT OF CHEMISTRY

Professors: Edward Mack, Jr., **A. S. Wheeler, F. K. Cameron, J. T. Dobbins, R. W. Bost.
Associate Professors: F. H. Edmister, H. D. Crockford, O. K. Rice, E. C. Markham, Alfred Russell, (Cooperative Fellow, Rockefeller Foundation).
Assistant Professors: S. E. Smith, J. E. Magoffin (Industrial Research).
Teaching Fellows: W. F. Bartz, H. A. Bernhardt, S. F. Clark.
Assistants: E. R. Andrews, G. B. Butler, C. V. Cannon, L. Galloway, H. C. Gulledge, W. L. Haden, R. C. Harris, R. L. Kenyon, J. H. Langston, Lee Leiserson, L. B. Lockhart, Anderson Pace, Littleton Upshur, R. B. Vowles, B. D. Webb, H. E. Wright.

Courses for Undergraduates

1-2-3. GENERAL DESCRIPTIVE CHEMISTRY (12).

An introduction to the study of the principal non-metallic and metallic elements and their compounds. Lectures with laboratory work. *Three lecture and two laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00 a quarter.* Professors Markham, Smith; Assistants.

4-5. GENERAL DESCRIPTIVE CHEMISTRY (12).

An introduction to the study of the principal non-metallic and metallic elements and their compounds. This course is equivalent to Chemistry 1-2-3. *Five lecture and three laboratory hours a week, winter and spring quarters. Laboratory fee, $4.50 a quarter.* Professors Markham, Smith; Assistants.

31. QUALITATIVE ANALYSIS (6). Prerequisite, Chemistry 1-2-3 or equivalent.

Laboratory work and lectures. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

41. ELEMENTARY QUANTITATIVE ANALYSIS: GRAVIMETRIC (6). Prerequisite, Chemistry 31.

Laboratory work, lectures, and stoichiometric exercises. *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

42. ELEMENTARY QUANTITATIVE ANALYSIS: VOLUMETRIC (6). Prerequisite, Chemistry 31.

Laboratory work, lectures, and stoichiometric exercises. *Three lecture and six laboratory hours a week, winter or spring quarter. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

---

* For the A.B. with major in Chemistry (primarily for students preparing for medicine) these are required: Chemistry 31, 41, 42, 61, 62, 63. Six courses in other natural sciences and six courses in departments outside the Division of the Natural Sciences are required also.

For the S.B. in Chemistry see page 81.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 127.

** Kenan Professor *emeritus*.

61, 62 (162), 63 (163). ORGANIC CHEMISTRY (18). Prerequisite, Chemistry 31.

Aliphatic, aromatic, and certain heterocyclic compounds. *Three lecture and six laboratory hours a week. Chemistry 61 is offered in the fall, Chemistry 62 in the winter, and Chemistry 63 in the spring. Laboratory fee, $10.00 a quarter.* Professors Bost, Russell.

83. PHYSICAL CHEMISTRY FOR STUDENTS OF BIOLOGY (5). Prerequisite, Chemistry 31, 42, and Math. 1, 2, 3. Does not carry credit toward S.B. in Chemistry.

Designed for A.B. students or students taking pre-medical, pharmaceutical, or biological work. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Professors Crockford, Rice, Mack.

Courses for Graduates and Advanced Undergraduates

101. SPECIAL PROBLEMS IN CHEMISTRY (1 to 3.) Prerequisite, to be determined by consultation.

Special assignments in library work, laboratory, or minor research. *Equivalent of one to three hours a week, every quarter. Laboratory fee, to be determined by consultation.* Any member of the departmental staff.

143. THEORETICAL ANALYTICAL CHEMISTRY (6). Prerequisite, Chemistry 31, 41, 42.

A detailed study of the reactions of all the common metallic and acidic ions from the standpoint of mass action, solubility product, and oxidation and reduction. This course is designed to give a comprehensive review of inorganic and analytical chemistry. *Six hours a week, winter quarter.* Professor Dobbins.

145. TECHNICAL ANALYSIS (3). Prerequisite, Chemistry 41, 42.

Quantitative analysis of industrial products, such as fuels and lubricating oils. *Six laboratory hours a week, fall quarter. Laboratory fee, $7.00.* Professor Markham.

146. INSTRUMENTAL ANALYSIS (3). Prerequisite, Chemistry 41, 42.

The application of such methods as colorimetry, nephelometry, and electrometric titrations. *Six laboratory hours a week, winter quarter. Laboratory fee, $7.00.* Professor Markham.

147-a. QUANTITATIVE ORGANIC MICROANALYSIS (3). Prerequisite, Chemistry 41, 42, 63.

The course will include the use of the microbalance and involve such determinations as neutralization equivalent, Kjeldahl and Dumas nitrogen, carbon and hydrogen, halogens and sulfur, molecular weights. (1940-1941 and alternate years.) *Six laboratory hours a week, spring quarter. Laboratory fee, $7.00.* Professor Markham.

147-b. INORGANIC MICROANALYSIS (3). Prerequisite, Chemistry 41, 42.

The course will include qualitative and quantitative analysis on milligram samples and an introduction to chemical microscopy and the use of the polarizing microscope. (1939-1940 and alternate years.) *Six laboratory hours a week, spring quarter. Laboratory fee, $7.00.* Professor Markham.

151, 152, 153. ADVANCED INORGANIC CHEMISTRY (9). Prerequisite, Chemistry 181. *Three hours a week, fall, winter, and spring quarters.* Professor Edmister.

163. QUALITATIVE ORGANIC ANALYSIS (6). Prerequisite, Chemistry 61, 62, 63.

A study of the theory of solubility, homology, class reactions, and the functional groups in organic compounds. Individual substances and complex mixtures are studied. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professors Bost, Russell.

164. QUANTITATIVE ANALYSIS OF FUNCTIONAL GROUPS (3). Prerequisite, Chemistry 163.

The quantitative determination of the common functional groups such as hydroxyl, carboxyl, amino, methoxy, nitro, ester, and similar groups. *Six laboratory hours a week, winter quarter. Laboratory fee, $7.00.* Professors Bost, Russell.

165. ORGANIC COMBUSTIONS (3). Prerequisite, Chemistry 163.

The ultimate analysis of carbon, hydrogen, nitrogen, sulfur, halogens, and certain other elements by well established methods. *Six laboratory hours a week, spring quarter. Laboratory fee, $7.00.* Professors Bost, Russell.

166-a, 167-a, 168-a. ADVANCED ORGANIC CHEMISTRY (3 each). Prerequisite or co-requisite, Chemistry 163.

A topical course dealing with such subjects as stereoisomerism, carbohydrates, alkaloids, proteins, dyes, drugs, heterocyclics, terpenes, polynuclear compounds, theories of organic chemistry. *Three hours a week, fall, winter, and spring quarters.* Professors Bost, Russell.

166-b, 167-b, 168-b. ADVANCED ORGANIC PREPARATIONS (3 each). Prerequisite or co-requisite, Chemistry 163.

Syntheses, identification, and studies in orientation. *Six laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00.* Professors Bost, Russell.

181, 182, 183. PHYSICAL CHEMISTRY (18). Prerequisite, Chemistry 31, 41, 42, 61, 62, 63, and satisfactory courses in physics and calculus.

An introductory study of the properties and behavior of gases, liquids, and crystals; elementary thermodynamics; homogeneous and heterogeneous equilibrium; solution theory; chemical kinetics; elementary principles of electrical conduction, galvanic cells, etc.; photochemistry and atomic structure. *Four lecture and four laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $7.00 a quarter.* Professors Crockford, Rice.

184, 185, 186. CHEMICAL THERMODYNAMICS (9). Prerequisite, Chemistry 181, 182, 183.

A study of chemical thermodynamics and electrochemistry with special emphasis on recent developments in these fields. (1940-1941 and alternate years.) *Three hours a week, fall, winter, and spring quarters.* Professor Crockford.

191, 192, 193. INDUSTRIAL CHEMISTRY (9). Prerequisite, Chemistry 61, 62, 63.

The methods and economics of the chemical industries. *Three hours a week, fall, winter, and spring quarters.* Professor Cameron.

*DEPARTMENT OF CLASSICS

Professors: G. A. HARRER, **J. P. HARLAND.
Associate Professors: S. G. SANDERS, R. P. JOHNSON, P. H. EPPS.
Instructor: A. I. SUSKIN.
Teaching Fellow: T. M. SIMKINS, JR.

GREEK

Courses for Undergraduates

†1-2-3. ELEMENTARY AND INTERMEDIATE GREEK (9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate Greek (11-12-13). The completion of Greek 1-2-3 gives credit for Greek 11-12-13. *Six hours a week, through the year.* Professor Epps.

NOTE: Attention is called to Greek 14-15-16, designed for upperclassmen who have fulfilled the requirement in another foreign language.

11-12-13. INTERMEDIATE GREEK (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and sophomore elective. *Three hours a week, through the year.* Professor Sanders.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially well qualified for such study. Sophomore elective. *Three hours a week, through the year.* Professor Epps.

21-22-23. ADVANCED GREEK (9). Prerequisite, 1-2-3 or 11-12-13 or equivalent.

Fall quarter, Greek prose; winter quarter, Plato's *Apology, Crito,* and close of *Phaedo*; spring quarter, Greek lyric poetry or Homer. *Three hours a week.* Professor Epps.

NOTE: Students so desiring may substitute Greek 58 for Greek 23.

58. GREEK NEW TESTAMENT (5). Prerequisite, Greek 21-22-23 or equivalent.

One or more of the Gospels will be read, with attention to the grammar, diction, and style of the New Testament writers. *Five hours a week, spring quarter.* Professor Epps.

71. GREEK HISTORIANS (5). Prerequisite, Greek 21-22-23 or equivalent.

Selections from the Greek Historians, chiefly Herodotus, will be read and reports will be made on related topics in Greek History. *Five hours a week, one quarter, on application.* Professor Harland.

81. THE GREEK ORATORS (5).

Select orations from Lysias and Demosthenes. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Epps.

* Students interested in having their major in Greek or Latin should consult the Department in the last quarter of their sophomore year.
Those students who plan to teach Greek or Latin in public high schools should read the footnote at the bottom of page 127.
** Absent on leave, spring quarter, 1938-1939.
† A year of Greek or Latin or Mathematics 1-2-3 or the equivalent must be taken by each candidate for A.B.

82. PLATO (5). Prerequisite, Greek 21-22-23 or equivalent.

Reading of the *Gorgias* or the *Republic* (*ex parte*), with attention to the dialogue as a form of philosophical expression and to the perennial problems raised and discussed in these works. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Epps.

Courses for Graduates and Advanced Undergraduates

112. HOMER (5). Prerequisite, Greek 21-22-23 or equivalent.

Rapid reading of the *Odyssey* with Homeric study. *Five hours a week, fall quarter.* (1939-1940 and alternate years.) Professor Epps.

153. GREEK TRAGEDY (5). Prerequisite, Greek 21-22-23 or equivalent.

A reading of select Greek tragedies, with attention to the origin, structure, and history of Greek tragedy. *Five hours a week, winter quarter.* (1939-1940 and alternate years.) Professor Epps.

154. GREEK COMEDY (5). Prerequisite, Greek 21-22-23 or equivalent.

Select comedies of Aristophanes and Menander will be read and attention paid to the Greek comic form and characteristics, and to the differences in the old and the new comedy. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Epps.

158. GREEK NEW TESTAMENT (5). Prerequisite, Greek 21-22-23 or equivalent.

The Acts of the Apostles, with selections from the Epistles, will be read. Attention is given also to textual criticism, and to the sources and history of the Greek text. *Five hours a week, spring quarter.* Professor Epps.

171. GREEK HISTORIANS (5). Prerequisite, Greek 71.

Selections from Thucydides will be read and the history of Athens and Sparta will be reviewed with a view to explaining the underlying causes of the Peloponnesian War. *Five hours a week, one quarter, on application.* Professor Harland.

*LATIN

Courses for Undergraduates

**1-2-3. ELEMENTARY AND INTERMEDIATE LATIN (9).

The course is designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate Latin (11-12-13). The completion of Latin 1-2-3 gives credit for Latin 11-12-13. *Six hours a week, through the year.* Mr. Simkins.

Note: Attention is called to Latin 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

---

* See notes on the major and teacher-training under Greek.

** A year of Greek or Latin or Mathematics 1-2-3 or the equivalent must be taken by each candidate for A.B.

*11-12-13. INTERMEDIATE LATIN (9).

The course is designed for those who show evidence of adequate preparation. Students entering with two units of Latin may be admitted. Readings in classical authors, including Cicero and Vergil. Freshman and sophomore elective. *Three hours a week, through the year.* Mr. Suskin.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

The course is designed for beginners, open only to those who desire an introduction to a second foreign language, and who give evidence of being especially well qualified for such study. *Three hours a week, through the year.* Mr. Suskin.

21-22-23. ADVANCED LATIN (9). Prerequisite, four units of High School Latin, or Latin 1-2-3 or 11-12-13.

The course will present a survey of Latin Literature, with selected readings from representative writers of prose and poetry. Freshman and sophomore elective. *Three hours a week, through the year.* Professor Sanders.

24-25. ROMAN LAW (6). Prerequisite, Latin 21.

The course is a sophomore option of A.B.-LL.B. students, and is open to other students who have completed the prerequisite work.

The course deals with the general principles and the historical development of Roman law. The work consists of the translation of selected passages in the legal literature, readings, and lectures. *Three hours a week, winter and spring quarters.* Professor Harrer.

51. ROMAN SATIRE (5). Prerequisite, Latin 21-22-23.

Readings from Horace, Petronius, Persius, Juvenal; occasional lectures. This course alternates with course 52. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Sanders.

52. CICERO'S LETTERS (5). Prerequisite, Latin 21-22-23.

The reading of selected letters and discussions of the history and politics of the time. This course alternates with course 51. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Sanders.

53. LATIN LYRIC POETRY (5). Prerequisite, Latin 21-22-23.

Readings in the lyric verse of Catallus and Horace. The origin and development of the Latin Lyric and its influence upon later literature. *Five hours a week, spring quarter.* Professor Johnson.

71. COURSE FOR TEACHERS (5). Prerequisite, Latin 21-22-23.

This course includes a systematic review of grammar through prose composition, a study of Caesar, Cicero, and Vergil, the basic authors read in secondary instruction, the political background of their period, and illustrated lectures on the topography of the city of Rome. *Five hours a week, fall quarter.* Professor Johnson.

---

* A year of Greek or Latin or Mathematics 1-2-3 or the equivalent must be taken by each candidate for A.B.

Courses for Graduates and Advanced Undergraduates

101. ROMAN HISTORICAL LITERATURE (5). Prerequisite, Latin 21-22-23.

A study of the structure, purposes, and methods of the most significant works. Translation and reading in English from the literature, reports, lectures. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Harrer.

102. ROMAN DRAMATIC LITERATURE (5). Prerequisite, Latin 21-22-23.

A study of the development of Latin comedy and tragedy. Reading of selected plays. The course alternates with course 101. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Harrer.

103. PROSE WRITINGS OF THE REPUBLIC (5). Prerequisite, Latin 21-22-23.

An account of the development of prose literature from Cato to Cicero, with special studies of certain types of readings from the chief works. *Five hours a week, winter quarter.* Professor Sanders.

104. CICERO: POLITICAL CAREER AND WORKS (5). Prerequisite, Latin 21-22-23.

A study of Cicero, as statesman and advocate. Selected letters, as well as a number of orations, will be read. *Five hours a week, spring quarter.* Professor Harrer.

105. THE SATIRES OF JUVENAL (5). Prerequisite, Latin 21-22-23.

Translations and interpretation, with a survey of the history of the period. *Five hours a week, fall quarter.* Professor Sanders.

110. MEDIAEVAL LATIN (5). Prerequisite, Latin 21-22-23 or the equivalent, as a minimum.

An introduction to Mediaeval Latin as a language and literature, with special attention to its relationship with Classical Latin. Assigned readings, papers, lectures on significant authors. *Five hours a week, winter quarter, on application.* Professor Johnson.

Courses Requiring no Knowledge of the Greek or Latin Language

The following courses in classical literature and civilization are especially designed to supply the necessary foundation for those who, without a reading knowledge of the ancient languages, wish a broader culture, or plan to specialize in modern literature, history, art, etc. When properly approved, they will be allowed to count as part of the major requirement in other departments. They may be taken also to satisfy the requirement of a minor in literature. See also under General and Comparative Literature.

Courses for Undergraduates

50. GREEK AND ROMAN LITERATURE (5).

A course on the great authors of Greece and Rome. Emphasis is on understanding the classics as literature and as a reflection of the civilization, culture, and viewpoints of antiquity. *Five hours a week, winter quarter.* Professors Epps, Harrer.

61. GREEK LITERATURE (5).
A survey of Greek literature in English translation with special reference to the contribution of Greece to modern thought and to literary forms. *Five hours a week, fall quarter.* Professor Epps.

62. LATIN LITERATURE (5).
A study of the masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Professor Sanders.

64. GREEK AND ROMAN COMEDY (5).
Extensive reading of the comedies of Aristophanes, Menander, Plautus and Terence in English translation, with attention to the form and characteristics of each and to the history of comedy in the Greek and Roman world. *Five hours a week, winter quarter.* Professors Epps, Harrer.

75. GREEK CIVILIZATION (5).
The achievements of the ancient Greeks and their contributions to the modern world in art, architecture, medicine, science, politics, and other fields will be studied. For a background, their house, dress, education, games, theatre, religion, etc. will be considered. Illustrated lectures and discussions. *Five hours a week, winter or spring quarter.* Professor Harland.

76. ROMAN CIVILIZATION (5).
The course deals with the public institutions, the political and social conditions, and the private life of the Romans, their buildings, living conditions, amusements, manners and customs, and religion. *Five hours a week, spring quarter.* Professor Johnson.

85. ARCHAEOLOGY AND THE BIBLE (5).
The results of the explorations and excavations in Palestine will be studied for the light they throw on Biblical History. Attention will be given to the Art and Civilization of the Peoples of the Old Testament, particularly of the Pre-exilic Period. *Five hours a week, fall quarter.* Professor Harland.

86. BIBLICAL HISTORY FROM 536 B.C. TO 400 A.D. (3).
An historical approach which will sketch (a) Jewish history and religious thought from the restoration to the destruction of Jerusalem, (b) the rise of Christianity, and (c) Christianity's coming to terms with Judaism, Hellenism, and the Roman Empire. *Three hours a week, winter quarter.* Professor Epps.

91. ARCHAEOLOGY OF THE NEAR EAST (5).
An introductory course in which the art and architecture of Egypt, Mesopotamia, the Hittites, and the Aegean ("Prehistoric Greek") World will be studied. Illustrated lectures on the monuments will be supplemented by lectures on the branches and methods of archaeology and on the civilization of the various peoples. *Five hours a week, fall quarter.* Professor Harland.

92. GREEK ARCHAEOLOGY (5).
The historical development of the art of Greece will be studied from the Bronze Age through the historical period. The course will deal mainly with Greek architecture, but painting and the other arts will receive attention. Illustrated lectures and required reading. *Five hours a week, winter quarter.* Professor Harland.

93. GREEK SCULPTURE (5).

The development of Greek sculpture will be studied and this art will be presented as one phase of the civilization of the ancient Hellenes. Illustrated lectures and required reading. *Five hours a week, spring quarter.* Professor Harland.

Courses for Graduates and Advanced Undergraduates

103. GREEK AND ROMAN EPIC (5).

Homer's Iliad and Odyssey, Vergil's Aeneid, and the minor Greek and Roman epics. The ancient epic forms and characteristics will be studied. *Five hours a week, spring quarter.* Professors Epps, Harrer.

107. GREEK DRAMATIC LITERATURE (5).

Extensive reading of the Greek tragedies, with attention to the origin, development, and content of Greek drama, and the Greek approach to life as presented in Greek tragedy. *Five hours a week, fall quarter.* Professor Epps.

193. HELLENIC ART (Greek Art) (5). Prerequisite, Archaeology 92 or 93, or Greek 75, or Greek History.

The art of Hellas (Greece) will be studied as one phase of the civilization of the Hellenes. In a sense, the course will be an archaeological commentary on Hellenic history. *Five hours a week, one quarter, on application.* Professor Harland.

195. THE AEGEAN CIVILIZATION (of the Bronze Age) (5). Prerequisite, Archaeology 91, or Ancient History.

The civilization which developed in the Aegean Basin (Greece, Krete, and the Aegean Islands) will be studied and the relations with Troy, the Danube Valley, and in general the Ancient Near East. The connections between the civilization of the Aegean Bronze Age and the culture of Classical Greece will receive special attention. *Five hours a week, one quarter, on application.* Professor Harland.

*DEPARTMENT OF DRAMATIC ART

Professors: F. H. KOCH, PAUL GREEN, G. R. COFFMAN.
Associate Professors: SAMUEL SELDEN, R. B. SHARPE.
Assistant Professor: H. E. DAVIS.
Instructors: J. W. PARKER, EARL WYNN, ORA MAE DAVIS.
Assistants: J. L. BROWN, F. H. KOCH, JR., GWENDOLYN M. PHARIS, FREDERICK WALSH.

Admission to the Department of Dramatic Art presupposes the completion of the work of the General College in this institution or of equivalent work done elsewhere.

---

* Requirements for an undergraduate with a major in Dramatic Art.
A Minimium of eighteen courses distributed as follows:
Three courses in playwriting: (155, 156, 157) and Theatre Arts: (61, 62, 63, 64, 65, 66, 67).
Two courses in dramatic literature: American Drama (149), History of the Theatre (160) Comparative Drama (161), Modern Drama (162).
One course in Shakespeare (50).
One course in Voice Training for Stage and Radio (55).
Four to seven courses in allied departments of the Division of the Humanities, to be taken after conference with the Head of the Department.
Four to seven courses from other divisions.

The courses in the Department of Dramatic Art are designed to give the student a comprehensive knowledge of the literature of the drama and intensive training in all phases of theatre work, from the writing of the play to the completed presentation before an audience.

Intensive study and research in all phases of dramatic art are made effective through introductory and advanced lecture courses, the seminar, and supervised practice work in theatre technique. The library resources of the student of dramatic literature and history of the theatre include a large and constantly increasing collection of critical and technical works, and plays of all periods.

Practical training for the student of playwriting, acting, directing, and technical work is provided by the production unit of the Department of Dramatic Art, The Carolina Playmakers. The Playmakers Theatre building and scene shop furnish ample opportunity for the student to test theory with practice, in both experimental and public performances.

Courses for Undergraduates

50. SHAKESPEARE (5).

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. *Five hours a week, spring quarter.* Professor Koch, assisted by Mr. Wynn.

55. VOICE TRAINING FOR STAGE AND RADIO (5).

Improvement of the voice as a speaking and reading instrument and the study and application of a standard, non-provincial, American diction are the main objectives of this course. Each student's aim for the quarter is to overcome his own voice and diction difficulties and his speech faults. Semi-private, instruction-practice groups are set up and individual voice recordings are made to assist him in achieving these ends. Required in a major in Dramatic Art. Not open to students in other departments. *Five class and one laboratory hour a week, every quarter. Laboratory fee, $2.00.* Mr. Wynn.

61. ACTING (5).

Training in the technique of acting. *Five hours class work a week, fall quarter. Fee for materials, $2.00.* Professor Selden, Mrs. Davis.

62. REHEARSALS AND PERFORMANCE (5).

The theory and practice of ensemble acting from the point of view of both the actor and the director. *Five hours class work a week, winter quarter. Fee for materials, $2.00.* Professors Selden, Davis.

Registration in Dramatic Art 63 is limited. Before registering for this course, students must secure the permission of Professor Selden.

63. PLAY DIRECTION (5). Prerequisite, Dramatic Art 61 or 62.

The theory and practice of play directing. *Two hours lecture and six hours practical work a week, spring quarter. Fee for materials, $2.00.* Professors Selden, Davis.

64. SCENERY CONSTRUCTION AND PAINTING (5).

Elementary theory and practice in the construction and painting of scenery for the stage. *Two hours lecture and six hours laboratory a week, fall quarter. Fee for materials, $2.00.* Professor Davis.

65. STAGE LIGHTING (5).
Elementary theory and practice in stage lighting, including the choice of equipment and its control in the theatre. *Two hours lecture and six hours laboratory work a week, winter quarter. Fee for materials, $2.00.* Professor Davis.

66. STAGE DESIGN (5).
The history of, and elementary theory and practice in, the designing of scenery for the stage, through the preliminary sketch, the model, and the working drawings. A considerable amount of simple architectural drafting will be required. *Two hours lecture and six hours laboratory work a week, spring quarter. Fee for materials, $2.00.* Professors Selden, Davis, and Professor Smith (of the Department of Art).

67. COSTUMING (5).
The designing and making of stage costumes with some consideration of make-up. *Two hours lecture and six hours laboratory work a week, winter quarter. Fee for materials, $2.00.* Mrs. Davis.

Courses for Graduates and Advanced Undergraduates

149. AMERICAN DRAMA, 1890-1930 (5).
A brief survey of the nineteenth century English and American drama, and a study of the development of the American drama in the twentieth century through representative plays. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Koch, assisted by Mr. Wynn.

The following three courses in playwriting (155, 156, 157) should be taken consecutively. If it is not practicable to do this, however, the student may, with the consent of the instructor, take any one of the three courses offered. Under exceptional circumstances a student may repeat one or more of the courses for credit. Special permission is necessary for this privilege.

155. PLAYWRITING (5).
A practical course in playwriting and experimental production. In all three of the playwriting courses emphasis is placed on the native tradition and present-day life of the region with which the student is most familiar. The student is expected to direct experimental productions of plays written in the course. The best of these are given public production by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, fall quarter. Fee for experimental production, $3.00.* Professor Koch, assisted by Professor Selden; Professor Green, lecturer and consultant.

156. PLAYWRITING (5).
The principles of dramatic construction and practice in the writing and production of one-act plays. Experimental and public productions. *Four hours lecture and two hours practical work a week, winter quarter. Fee for experimental production, $3.00.* Professor Koch, assisted by Professor Selden; Professor Green, lecturer and consultant.

157 PLAYWRITING (5).
Practice in writing one-act and full-length plays with experimental and public productions by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, spring quarter. Fee for experimental production, $3.00.* Professor Koch, assisted by Professor Selden; Professor Green, lecturer and consultant.

160. HISTORY OF THE THEATRE (5).

A course designed to give the student a view of the institution of the theatre in its beginnings and development. The emphasis is on those features of the theatre which are not dealt with in the more literary courses—the changing forms of the theatre building, scenery, lighting, the audience, the actor, the relation of the theatre to social conditions, and the place of the theatre in the history of civilization. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professors Koch, Selden.

161. COMPARATIVE DRAMA (5).

A general survey of the drama and the theatre from Aeschylus to Ibsen. The development of dramatic literature is studied through representative plays (in translation) of the leading European dramatists. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Koch, assisted by Mr. Wynn.

162. MODERN DRAMA (5).

A study of representative plays of the modern period, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Koch, assisted by Mr. Wynn.

193. MATERIALS AND METHODS OF TEACHING DRAMATICS IN HIGH SCHOOLS (5). Prerequisite, courses to be determined by the instructor.

This course includes consideration of the teaching of oral English, the correction of speech faults, the teaching of dramatic literature and playwriting, the selection and production of plays, and the direction of dramatic clubs in secondary schools. Teachers of the State elective in drama are required to teach written as well as oral English set down for Education 181. (This course is identical with Education 193.) *Five hours a week, winter quarter.* Professor Farrar of the Department of Education.

*DEPARTMENT OF ECONOMICS AND COMMERCE

Professors: D. D Carroll, E. E. Peacock, E. W. Zimmermann, **R. J. M. Hobbs, J. B. Woosley, C. P. Spruill, G. T. Schwenning, Clarence Heer, H. D. Wolf, D. H. Buchanan, E. M. Bernstein.
Visiting Professor: H. vonBeckerath.
Associate Professors: M. D. Taylor, J. M. Lear, M. S. Heath, J. G. Evans, R. H. Sherrill, D. J. Cowden.
Assistant Professors: R. S. Winslow, E. H. Anderson.
Instructors: J. C. D. Blaine, A. T. Bonnell, F. H. Bunting, R. W. Crutchfield, C. H. Donovan, D. F. Martin.
Teaching Fellows: J. S. P. Canterbury, C. C. Thompson.
Research Assistant: F. S. Wilder.
Assistants: †Brant Bonner, J. W. Gunter, F. M. Hawley, Jr., J. E. Hicks, J. W. Kendrick, Bertie McGee, F. Meyers, O. T. Mouzon, C. A. Shaw, D. L. Stallings, M. R. Sullivan.

*ECONOMICS

Courses for Undergraduates

11. RESOURCES AND INDUSTRIES (5).

This course occupies a middle ground between geography and economics. Important data of human economic geography are appraised as to their meaning to the economist. The emphasis in resource analysis, therefore, is on the supply and demand conditions which have a measurable effect on price behavior. The close relationship between geographical facts and institutional developments is taken into consideration. The approach is functional rather than descriptive. Attention is focused on wide vistas and deep perspectives rather than on details of technology. In general, an effort is made to place the discussion on a broad basis of human values and world relationships. *Five hours a week, every quarter. Fee for materials, $1.00.* Professor Zimmermann; Mr. Mouzon, Mr. Kendrick.

21-22-23. GENERAL ECONOMICS (9). Not open to Freshmen.

This course is planned to give a general understanding of the organization of our economic life and the fundamental principles underlying it. An analysis is made of production, distribution, and consumption, of the elements which determine value and price, with a brief introduction to money, banking and credit, monopoly, business combinations, labor problems, and economic reform. Sophomore elective. *Three hours a week, fall, winter, and spring quarters.* Professor Cowden; Messrs. Bonnell, Bunting, Donovan, Martin, Sullivan.

---

* For an A.B. degree with a major in Economics, a student must complete Economics 21-22-23 or its equivalent in the General College and six courses, including the following: Economics 81-82, 131, and either Economics 191 or 195. The other two courses may be selected from any offerings of the department other than Economics 35 or 137. If a student has not had Economics 21-22-23 or its equivalent before entering the College of Arts and Sciences he may satisfy this requirement by taking Economics 61-62 in his junior year. The student will also be required to select five to seven courses from related departments in the Division of the Social Sciences and five to seven courses from the Divisions of the Natural Sciences and the Humanities.

** Absent on leave on the Kenan Foundation, fall quarter, 1938-1939.

† Resigned November 15, 1938.

31-32. GENERAL ECONOMICS (10). Not open to Freshmen.

The content of this course is the same as that of Economics 21-22-23 but it is given as a double course in two quarters. Sophomore elective. *Five hours a week, fall, winter; winter, spring; and spring, fall quarters.* Professors Heer, Wolf, Bernstein, Lear, Heath, Winslow; Messrs. Blaine, Bunting, Donovan, Martin, Thompson.

35. ECONOMIC HISTORY (5). Not open to Freshmen.

A survey of the steps by which economic activities have evolved from primitive beginnings into the complicated capitalistic economy of today. Special emphasis on the development of the wage system, the Industrial Revolution, the expansion of markets, the ebb and flow of industrial activities, the relation of industrial development to political policy, as they have manifested themselves in England and in the United States. *Five hours a week, every quarter.* Professor Evans; Mr. Wilder.

61-62. GENERAL ECONOMICS (10). Not open to Freshmen or Sophomores.

This course is planned for students in the Upper Divisions, other than those whose major is economics, who desire an elective in the principles of economics. The field covered is the same as in Economics 31-32 but at a more advanced level and in a more critical way. *Five hours a week, fall, winter; and winter, spring quarters.* Professor Evans.

81-82. PRINCIPLES OF MONEY AND BANKING (10). Prerequisite, Economics 21-22-23 or equivalent.

A general study of the principles, functions, and forms of money and credit, followed by analyses of current money and credit problems. The second half of the course is devoted to a study of the theory of commercial banking with particular respect to its application and development in the United States. *Five hours a week, fall, winter; and winter, spring quarters.* Professors Woosley, Bernstein, Winslow.

Courses for Graduates and Advanced Undergraduates

121. RISK AND RISK-BEARING (5). Prerequisite, Economics 21-22-23 or equivalent.

A study of the risk element in modern industry together with the measures which have been devised to meet it. This course should precede the study of insurance. *Five hours a week, fall quarter.* Professor Lear.

124. PRINCIPLES OF MARKETING (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical study of marketing organization and operation. Among the topics discussed are: methods of approach to the study of marketing; the marketing of farm products, the marketing functions; trade channels; direct marketing; the services performed by brokers, sales agents, auctions, wholesalers, and different types of retailers; commodity exchanges and future trading; price policies; price maintenance; brand policies; market research; problems relating to marketing costs; and scientific marketing management. Emphasis is placed on recent developments in retailing, such as the growth in economic importance of centrally owned chain store organizations, cooperative chains, and consumers' cooperative stores. In the study of the marketing of farm products special attention is given to cooperative marketing, and the

work of the Agricultural Adjustment Administration and the Farm Credit Administration is examined critically. Study is made likewise of other governmental bureaus which influence marketing. *Five hours a week, fall quarter.* Professor Taylor.

131. ECONOMIC THEORY (5). Prerequisite, Economics 21-22-23 or equivalent.

The primary purpose of this course is the development of greater facility upon the part of the student in the use of economic theory as a tool in the solution of economic and business problems. Supplementary thereto, the assumptions and limitations of economic theory are analyzed. Specific problems are employed to test the utility of theory as a framework of thought for their solution. Required of all seniors in the School of Commerce and of all seniors whose major is Economics. *Five hours a week, every quarter.* Professor Spruill.

137. ECONOMIC DEVELOPMENTS IN THE ORIENT SINCE 1800 (5).

A study of the foundations of economic life and of modern economic developments in Japan, China, and India. Special attention is given to the rise of modern industry, commerce, and finance, and to the effect of these upon the indigenous cultures and upon international relations. *Five hours a week, spring quarter.* Professor Buchanan.

141. PUBLIC FINANCE (5). Prerequisite, Economics 21-22-23 or equivalent.

A general study of government business covering the principles involved in public revenues and expenditures—local, state, and national; a treatment of the just distribution of public charges and their incidence; and a study of the growth and organization of modern tax systems. *Five hours a week, fall quarter.* Professor Heer.

142. PROBLEMS IN FEDERAL FINANCE (5). Prerequisite, Economics 141.

An advanced critical study of the problems of American national finance with particular reference to federal taxes and federal tax procedure. *Five hours a week, winter quarter.* Professor Heer.

143. PROBLEMS IN STATE AND LOCAL FINANCE (5). Prerequisite, Economics 141.

Selected problems relating to the financing of state and local functions. *Five hours a week, spring quarter.* Professor Heer.

145. PROBLEMS OF MODERN INDUSTRIALISM (5). Prerequisite, Economics 21-22-23 or equivalent.

This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against this background of modern capitalism, the issues and trends of public policy with respect to economic organization in America and Europe are compared and appraised. (Alternates with Economics 258; will be given in 1940-1941.) *Five hours a week, fall quarter.* Professor von-Beckerath.

151. TRANSPORTATION (5). Prerequisite, Economics 21-22-23 or equivalent.

The first part of this course is designed to acquaint the student with the structure and the functions of transportation in modern industrial society. The prices of transportation services are analyzed with regard to both the supply of the services and the location of other economic enterprises. The second part of the course presents the evolution of public policy, the growth of state and federal regulation; and considers the important transportation problems which confront our regulatory commissions and other public representative bodies today. *Five hours a week, fall quarter.* Professor Heath.

153. PUBLIC UTILITIES (5). Prerequisite, Economics 21-22-23 or equivalent.

The first part of the course is historical and descriptive, covering the physical and technical development and the corporate and financial set-up of public service corporations other than railroads, including electric light and power companies, telegraph companies, street railways, motor vehicle carriers, and similar utilities. The second part of the course deals with methods of protecting the public interest in utility services. Among the topics considered are: the legal bases of utility regulation, state and federal regulatory agencies, valuation and rate of return, principles of rate making, capitalization, and security regulation, the problem of the holding company, and public ownership. *Five hours a week, spring quarter.* Professor Heer.

161. THEORY OF INTERNATIONAL TRADE (5). Prerequisite, Economics 21-22-23 or equivalent.

In this course international trade is viewed from the standpoint of the political economist, emphasizing the social aspects. After an historical study of the past and a critical analysis of the present foreign commerce of the United States and principal competitors, an effort is made to apply to a survey of our foreign markets and of our foreign sources of supply the general principles of economic theory in so far as they pertain to international trade. Following this the payment balances of this country and of other leading countries engaged in world commerce are critically studied. Finally, the most important theories of international trade are reviewed in the light of historical development. *Five hours a week, fall quarter.* Professor Zimmermann.

165. COMMERCIAL POLICY OF MODERN NATIONS (5). Prerequisite, Economics 161.

After a general survey of international commercial policy up to the close of the Napoleonic Wars, a more detailed comparative study of the commercial policy of the leading nations during the last hundred years is made. The following countries are included: United States, Great Britain, France, Germany, Russia, Italy, Canada, Argentina, and India. Special attention is given to tariff problems, colonial policies, and to imperialism. The present world resources situation and its probable effect on future commercial policy is appraised. (Alternates with Commerce 169; will be given in 1940-1941.) *Five hours a week, spring quarter.* Professor Zimmermann.

170. ECONOMIC STATISTICS (5). Prerequisite, Mathematics 1-2-3, Economics 21-22-23 or equivalent.

This course is designed to give an understanding of statistical technique used by economists and business men. Among the topics included are: collection of data, tabular and graphic presentation,

averages, reliability, theory, index numbers, time series analysis, and simple correlation. Emphasis is put on the meaning and limitations of statistical methods rather than on techniques of computation and mathematical proofs. The laboratory work is designed to give practice in the use of the processes studied, together with an interpretation of the results found. *Three lecture and four laboratory hours a week, every quarter. Laboratory fee, $3.00.* Professor Cowden.

171. ADVANCED ECONOMIC STATISTICS (5). Prerequisite, Economics 170 or equivalent.

This course is designed to give the student the ability to use some of the more exact and more technical tools, such as fitting of the normal curve, curvilinear trends for time series, changing the seasonal variation, and multiple correlation. Sampling theory is further considered. The course also seeks to give acquaintance with practical work and current literature in statistics. *Three lecture and four laboratory hours a week, spring quarter. Laboratory fee, $2.00.* Professor Cowden.

185. BUSINESS CYCLES (5). Prerequisite, Economics 21-22-23 or equivalent, and 81.

A study of the alternating periods of depression and prosperity. The underlying causes of panics and crises. Fluctuation in prices, trade volume, and physical production. *Five hours a week, winter or spring quarter.* Professor Bernstein.

191. AN INTRODUCTION TO THE LABOR PROBLEM (5). Prerequisite, Economics 21-22-23 or equivalent.

To the extent that the competitive wage system fails (a) to provide for the laborer an adequate basis for a decent living and (b) to draw from him the services he ought to render to industry, there appears to be a "labor problem." The purpose of this course is to make an analytic survey of the modern labor problem in its major aspects, such as unemployment, low wages, industrial accidents and diseases, overstrain, and superannuation, and the status of the worker in industrial society. Trade unionism and the labor movement and intervention by the State in behalf of the worker, and social methods of coping with the problems of labor are also surveyed. *Five hours a week, every quarter.* Professor Wolf.

192. LABOR AND SOCIAL CONTROL (5). Prerequisite, Economics 191.

An advanced course in social methods of coping with labor problems. These fall roughly into three classes: (a) self-help on the part of the workers, which embraces trade unionism, labor political activity, and consumers' cooperation; (b) employers' policies, such as welfare work and paternalism, profit-sharing, and company unionism; and (c) intervention by public authority, as through labor legislation, conciliation and arbitration, and judicial limitation of private property rights. In so far as possible the various topics will be studied in terms of the Southern labor situation. *Five hours a week, winter quarter.* Professor Wolf.

195. THEORIES OF ECONOMIC REFORM (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical analysis of the leading proposals for reform in the present economic system, including Socialism, Bolshevism, Single Tax, and Social Insurance. *Five hours a week, every quarter.* Professor Carroll.

197. GOVERNMENT AND BUSINESS (5). Prerequisite, Economics 21-22-23 or equivalent.

This course deals with the control exercised by government over business operations. Emphasis is placed on legal control. Attention in some detail is given to trade regulations, public utilities, and the operation of the federal anti-trust laws. The course includes a study of the control of business by the states under their police powers and by the federal government under the interstate commerce and taxing provisions of the federal constitution. Governmental participation in business is treated to a limited extent as is the attitude of government toward labor. The emergency legislation of 1933 and the extensive governmental activities thereunder are studied. *Five hours a week, spring quarter.* Professor Hobbs.

COMMERCE

(Courses in Commerce count for credit toward the degree S.B. in Commerce only.)

Courses for Undergraduates

51. BUSINESS ORGANIZATION (5). Prerequisite, Economics 21-22-23 or equivalent.

The forms of business organization with emphasis on the corporation. The external relations of a business organization and the internal coordination of the factors in production with a view to the establishment of effective control and definite responsibility for results. Special attention will be directed to the various functions to be performed, such as production, finance, personnel, marketing, risk-taking, and records and standards. *Five hours a week, fall or spring quarter.* Professor Schwenning.

61. SALES MANAGEMENT (5). Prerequisite or corequisite, Economics 21-22-23 or equivalent.

This course presents important problems of sales planning and administration from the point of view of the executive in charge of marketing. Among the general topics considered are: the relation of the sales department to other departments of the business; types of sales organizations; the selection, training, compensation, and management of the sales force; distribution policies, including the choice of channels and agencies; sales research and market analysis; the determination of price and brand policies; the statistical control of sales operations; and the costs of distribution. Methods of preparing sales budgets are emphasized and budgets used by representative companies are examined. The distributive organization of several companies is studied critically. In the latter part of the course the problem method of instruction is used. *Five hours a week, winter quarter. Laboratory fee, $1.00.* Professor Taylor.

71. ACCOUNTING PRINCIPLES (6). Prerequisite or corequisite, Economics 21-22-23 or equivalent, Commerce 51.

Lectures with laboratory work. Study of the theory of debit and credit, record making, organization of accounts, and presentation of financial and profit and loss statements. Laboratory exercises in accounting problems and technique. *Four lecture and four laboratory hours a week, every quarter. Laboratory fee, $3.00.* Professors Peacock, Sherrill; Messrs. Crutchfield, Hawley, Shaw, Stallings.

72. ACCOUNTING PRINCIPLES (6). Prerequisite, Commerce 71.
Lectures with laboratory work. An approach to accounting problems from the business manager's point of view. It consists of a thorough study of the organization of the accounting department of a business and its relation to the other departments, accounting systems, construction and analysis of accounting statements. The principles of valuation of assets, depreciation, and bonds are also covered. *Four lecture and four laboratory hours a week, every quarter. Laboratory fee, $3.00.* Professors Peacock, Sherrill; Messrs. Crutchfield, Hawley, Shaw, Stallings.

91-92. BUSINESS LAW (10). Prerequisite, Economics 21-22-23 or equivalent.
The aim of the course is to give the student an understanding of the main principles of law which govern in the daily conduct of business. The topics discussed are: contracts, agencies, negotiable instruments, sales, bailments, corporations, partnerships, and bankruptcy. *Five hours a week, fall and winter quarters.* Professor Hobbs.

Courses for Graduates and Advanced Undergraduates

121. INSURANCE: LIFE (5). Prerequisite, Economics 21-22-23 or equivalent.
A study of the principles and technique of life insurance, including disability, accident, and group insurance. Some attention will also be given to the investment operations of insurance companies. *Five hours a week, winter quarter.* Professor Lear.

122. INSURANCE: FIRE, MARINE, BOND, AND TITLE (5). Prerequisite, Economics 21-22-23 or equivalent.
In this course, an effort is made to consider as far as possible the wide range which the insurance function covers and the probable trend of its future development. The topics noted in the title of the course are studied and as many others as time will permit. *Five hours a week, spring quarter.* Professor Lear.

141. TRAFFIC PROBLEMS (3). Prerequisite, Economics 151.
A study of current technical problems in the field of transportation and traffic management. (This course will be given only in case as many as five students register for it.) *Three hours a week, winter quarter.* Professor Heath.

151. PRINCIPLES OF INDUSTRIAL MANAGEMENT (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.
This course covers the problems involved in the construction, equipment, and administration of a manufacturing enterprise. The unit of study is the factory. The subject matter is treated under four heads: the underlying principles of production, the agencies of production, the control of production operations, and the establishment of production standards. *Five hours a week, fall quarter.* Professor Schwenning.

154. PRODUCTION MANAGEMENT: THEORIES AND PRACTICES (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.
Current theories of organization and management will be taken up and subjected to careful scientific analysis. Practices will be compared with theories. An attempt will be made to formulate the underlying principles upon which the administration of modern industrial enterprise rests. *Five hours a week, winter quarter.* Professor Anderson.

155. PERSONNEL MANAGEMENT (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.

A scientific study of the methods of hiring and handling personnel in the various lines of industry. The supply, selection, training, promotion, transfer, and discharge of employees; the computation and significance of labor turnover; housing, educational, and recreational facilities; the functions of a personnel department with reference to efficiency, and the maintenance of good will between employees and employers. *Five hours a week, winter quarter.* Professor Schwenning.

156. PERSONNEL PROBLEMS (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.

This is an advanced course designed to accomplish the following objectives: (1) to indicate the increasing importance of personnel work in industry and business due to current economic conditions, labor legislation, and labor organization; (2) to concentrate attention on certain leading problems of the personnel department; and (3) to provide students an opportunity to do intensive work on selected personnel problems. Among the topics selected for thorough investigation are these: the place and importance of the personnel department, establishment of personnel policies, coordination of personnel activities, the problem of morale, the problem of fatigue, control of production standards, job analysis and job classification, the place of foremen in personnel work, wages and wage payment systems, and joint relations under the National Labor Relations Act. *Five hours a week, spring quarter.* Professor Schwenning.

157. TIME AND MOTION STUDY (3). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51, 151. Open only to seniors and graduate students.

A presentation of the elements of time and motion study as a phase of scientific management and as a device used by modern industrial establishments to measure the productive capacity of workers on specific jobs and to set production standards. The course will include a discussion of the following: fundamentals and development of time and motion study; equipment and qualifications of a time study man; collection and tabulation of data; organization of the time study department, etc. Students will be given practice in making time studies and in applying the results. (Alternates with Commerce 154; given in 1939-1940.) *Three hours a week, spring quarter.* Professor Schwenning.

161. ADVERTISING (5). Prerequisite, Economics 21-22-23 or equivalent.

A study of the economics of advertising, the place and function of advertising in business, and the psychological principles applicable to the preparation of advertisements. The chief problems of advertising are discussed from the viewpoint of the executive in charge of marketing who must continually give consideration to what can reasonably be expected from advertising as part of a complete distribution program. Emphasis throughout the course is placed on the ethical aspects of advertising and on the use of research methods in the effective planning and preparation of advertising campaigns. Several outstanding campaigns are studied in detail. Considerable practice is given students in the planning and preparation of advertisements. *Five hours a week, fall or spring quarter. Laboratory fee, $1.00.* Professor Taylor.

163. ADVANCED COURSE IN MARKETING (5). Prerequisite, Economics 124 or Commerce 61 or 161.

This course is for students who wish to do advanced work in the field of marketing. The particular problems considered vary from year to year depending on the interests of the class. The seminar method is used. *Five hours a week, spring quarter.* Professor Taylor.

165. RETAIL DISTRIBUTION (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical study is made of the general policies and practices of retail institutions such as unit stores, department stores, specialty stores, chain stores, voluntary chains, and mail order houses; and an attempt is made to develop the principles of retail distribution. Among the general topics considered are: elements of retail profit, types of retail institutions and types of merchandise, store location, store layout and merchandise classification, sales and service policies, merchandising, pricing policies, brand policies, relations with merchandise sources, and organization. Problems and cases form an important part of this course. *Five hours a week, winter quarter.* Professor Taylor.

169. FOREIGN TRADE PRACTICE (5). Prerequisite, or corequisite, Economics 124.

This course treats of foreign trade as a business profession, developing both its functional and structural aspects. Attention is given to both exporting and importing as well as ocean shipping and marine insurance. (Alternates with Economics 165; given in 1939-1940.) *Five hours a week, spring quarter.* Professor Zimmermann.

171. ADVANCED ACCOUNTING (5). Prerequisite, Commerce 71-72.

Lectures with laboratory work. Study of accounting problems and forms for special types of business concerns. Accounting for the organization and liquidation of co-partnerships and corporations, for combinations and consolidations, for trustees and receiverships, branch houses, municipalities, and foreign exchange. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Peacock.

172. ACCOUNTING SYSTEMS (6). Prerequisite, Commerce 71 and prerequisite or corequisite, Commerce 72.

A laboratory course. Bookkeeping systems and records for the various industries prevalent in North Carolina are studied and practice sets for each are prepared. A tentative list will include tobacco manufacturing, furniture manufacturing, cotton goods manufacturing, automobile sale agencies and garages, banks in small cities, and municipalities. *Six hours a week, spring quarter. Laboratory fee, $2.00.* Professor Peacock.

173. COST ACCOUNTING (5). Prerequisite, Commerce 71-72.

Lectures with laboratory work. Methods for collection of data relative to prime costs and a careful analysis of various methods of burden distribution. Application of principles will be made in the laboratory by means of budgets for cost accounting in different classes of enterprise. *Five hours a week, winter quarter. Laboratory fee, $2.00.* Professor Peacock.

175. AUDITING (5). Prerequisite, Commerce 71-72.

Lectures and problems. Kinds of audits, systems of accounts, methods of conducting audits, and problems in auditing. *Five hours a week, fall quarter. Laboratory fee, $2.00.* Professor Peacock.

177. INCOME TAX PROCEDURE (5). Prerequisite, Commerce 71-72.

This course consists of a thorough study of both the Federal and State income tax laws and the problems that arise in the making of the various returns. The preparation of the tax returns and claims for refund will be undertaken as laboratory exercises. *Five hours a week, winter quarter. Laboratory fee, $2.00.* Professor Sherrill.

178. C. P. A. PROBLEMS (3). Prerequisite, Commerce 71-72.

This course deals with the questions and problems given by the different states and the American Institute in their C. P. A. examinations. Typical problems are solved, and solutions prepared by the leading accountants of the country are studied. (This course will be given only in case as many as five students register for it.) *Three hours a week, spring quarter.* Professor Peacock.

179. GOVERNMENTAL ACCOUNTING (5). Prerequisite, Commerce 71-72.

Lectures and laboratory work. A study of budgeting accounting and its application to the various governmental units; the differences between fund accounting and commercial accounting; methods of collecting data recorded in books of original entry; and the preparation of financial statements. A survey will be made of systems for educational institutions, and for state, county, and city governments. Laboratory work will consist of practical problems. Field trips will be taken in order to study the system used by the State of North Carolina, the system prepared by the County Government Advisory Commission for counties, and other available systems. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Sherrill.

181. ADVANCED BANKING AND FOREIGN EXCHANGE (5). Prerequisite, Economics 81-82.

A study of the operation and administration of the commercial banking system. Comparisons with the banking systems of other countries will be made. Federal Reserve policies, and the theories underlying them, will be examined. Attention will also be directed to international banking operations and the forces determining the rates of foreign exchange. *Five hours a week, spring quarter.* Professor Woosley.

191. CORPORATION FINANCE (5). Prerequisite, Economics 21-22-23, Commerce 51 and 71.

A study of the principles and practice of corporate financing. Among the topics considered are: the methods of raising permanent capital, problems of current financing, the treatment of earnings, and financial problems incident to expansion and reorganization. Specific problems and reports are employed to illustrate and emphasize the principles involved. *Five hours a week, fall or winter quarter.* Professor Woosley.

195. INVESTMENTS (5). Prerequisite, Economics 21-22-23, Commerce 71-72, 191.

This course is essentially a laboratory study of corporate securities from the standpoint of the investor. Primary emphasis is placed upon the development of technique and standards of investment analysis. *Five hours a week, spring quarter.* Professor Woosley.

*DEPARTMENT OF EDUCATION

Professors: H. R. DOUGLASS, **M. C. S. NOBLE, E. W. KNIGHT, A. M. JORDAN, G. B. PHILLIPS, O. K. CORNWELL, R. J. MAASKE.
Associate Professors: C. E. PRESTON, P. C. FARRAR, H. F. MUNCH, HUGO GIDUZ, J. M. GWYNN.
Assistant Professor: A. K. KING.
Instructors: W. D. PERRY, W. J. E. CRISSY.
Teaching Fellow: W. T. GRUHN.
Assistants: W. E. CONRAD, D. P. BENNETT.

In Extension

Professor: W. J. McKEE.
Associate Professor: R. W. MORRISON.

Courses for Undergraduates

41. GENERAL INTRODUCTION TO THE STUDY OF EDUCATION (5). Required of all prospective teachers.

This course attempts to aid prospective teachers in obtaining a general understanding of the philosophy and procedures of public education. It introduces the history, traditions, organization, and purposes of public schools. *Five hours a week, fall and winter quarters.* Professor Maaske and staff.

51. PRINCIPLES OF PHYSICAL EDUCATION (5).

See Department of Physical Education and Athletics.

52. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (5).

See Department of Physical Education and Athletics.

53. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION (5).

See Department of Physical Education and Athletics.

61c. GENERAL PSYCHOLOGY FOR STUDENTS OF COMMERCE (5).

For students in the School of Commerce; not open to others.

A course in general psychology for students in the School of Commerce. Emphasis placed upon the psychological aspects of social phenomena. *Five hours a week, fall or winter or spring quarter. Fee for materials, $1.00.* Professor Jordan.

61. HEALTH EDUCATION I (5).

See Department of Physical Education and Athletics.

---

* All students who plan to follow a teacher-training program should consult the Chairman of the Division of Teacher Training, who is also Head of the Department of Education, for admission to the Division before registering for their junior year. Freshmen and sophomores who know that they wish to teach are advised to consult the Chairman of the Division of Teacher Training as early as possible. It is difficult to meet the State requirements for high school teaching certificates in certain fields unless the student chooses General College courses in the light of these requirements.

For further information concerning preparation for teaching see the section in the catalogue headed "Division of Teacher-Training."

** Kenan Professor *emeritus*.

62. HEALTH EDUCATION II (5).
See Department of Physical Education and Athletics.

63. HEALTH EDUCATION III (5).
See Department of Physical Education and Athletics.

64. DIRECTED TEACHING OF PHYSICAL EDUCATION (5).
See Department of Physical Education and Athletics.

71. EDUCATIONAL PSYCHOLOGY (5). Required of all graduating from the Division of Teacher Training.

To consider critically such topics as inheritance and its relations to environment, learning and its motivation, individual differences, mental hygiene, and mental measurements is the purpose of this course. Lectures, textbooks, laboratory. Laboratory fee, $1.00. *Four lecture and two laboratory hours a week, winter or spring quarter.* Professor Jordan.

73. INDIVIDUAL PHYSICAL EDUCATION (MEN) (5).
See Department of Physical Education and Athletics.

74. INDIVIDUAL PHYSICAL EDUCATION (WOMEN) (5).
See Department of Physical Education and Athletics.

80. DIRECTED TEACHING OF INSTRUMENTAL MUSIC (5).

The purpose of this course is to provide practice in teaching instrumental music under actual classroom conditions. A period of observation together with a study of the material taught, and preparation of lesson plans, will precede the actual teaching under supervision. *Five hours a week, every quarter, or the course may be spread out over two or three quarters.* Professor Slocum.

81. DIRECTED TEACHING OF VOCAL MUSIC (5).

The purpose of this course is to provide practice in teaching vocal music under actual classroom conditions. A period of observation together with a study of the material taught, and preparation of lesson plans, will precede the actual teaching under supervision. *Five hours a week, every quarter, or the course may be spread out over two or three quarters.* Professor Slocum.

82. DIRECTED TEACHING OF HIGH SCHOOL ENGLISH (5). Prerequisite, courses to be determined by the instructor.

The purpose of this course is to provide actual practice in teaching high school classes in English under supervision. It will be initiated by observation of teaching, study of the material taught, and preparation of lesson plans. *Five hours a week, any quarter, on application.* Professor Farrar.

84. DIRECTED TEACHING OF HIGH SCHOOL FRENCH (5). Prerequisite, courses to be determined by the instructor.

In this course the student carries out as far as possible the plan evolved in Education 183. From participation through a period of observation, the student gradually reaches the active stage of teaching. During the latter half of the term he has sole charge of the class, always of course, under the supervision of the instructor. Daily lesson plans and conferences for the discussion of each day's work. *Five hours a week, any quarter, on application.* Professor Giduz.

85a. CHILD RHYTHMICS AND ELEMENTARY DANCING FOR THE PUBLIC SCHOOLS (2½).

See Department of Physical Education and Athletics.

85b. RHYTHMICS FOR PUBLIC SCHOOLS AND COLLEGES (2½).

See Department of Physical Education and Athletics.

86. DIRECTED TEACHING OF THE SOCIAL STUDIES (5). Prerequisite, courses to be determined by the instructor.

In this course the student will at first attend a high school class in history or community civics and observe the methods and techniques of conducting the class. When, in the judgment of the instructor, the student is sufficiently familiar with the correct methods, he will be permitted to conduct the class under the supervision of the instructor. After each class conducted by the student teacher his work will be discussed and criticized in conference with the supervisor. *Five hours a week, any quarter, on application.* Professor King.

88. DIRECTED TEACHING OF HIGH SCHOOL LATIN (5). Prerequisite, courses to be determined by the instructor.

The teaching of Latin in the practice school will be observed closely by students for a time; the work of the classes observed will be fully discussed. After such intense observation work, the students will be required to work out individual lesson plans for the classes observed. When the instructor believes that the students have learned the correct procedures he will provide each of them with a class to teach under his supervision. Critical reports and discussions of the class work of each student teacher will follow. *Five hours a week, any quarter, on application.* Professor Gwynn.

90. DIRECTED TEACHING OF HIGH SCHOOL MATHEMATICS (5). Prerequisite, courses to be determined by the instructor.

This course familiarizes the student with the actual classroom situation. It consists of the following steps: mastery of subject matter to be taught; preparation for teaching by observation, making lesson plans, and conferences with the instructor; actual teaching; and discussion with the instructor of techniques used and results obtained. Teaching by the student is the feature of the course. *Five hours a week, any quarter, on application.* Professor Munch.

92. DIRECTED TEACHING OF HIGH SCHOOL SCIENCE (5). Prerequisite, courses to be determined by the instructor.

The object of this course is to give the student familiarity with the science classroom and laboratory in operation. Entering first as an observer he will gradually be allowed to take over more and more of the work as he is considered qualified to do so. Conferences with the instructor will be an important part of this course. *Five hours a week, any quarter, on application.* Professor Preston.

95. BOOK SELECTION FOR HIGH SCHOOL LIBRARIES (5).

A survey of young people's literature, their reading interests during the high school age and a study of standard classics and contemporary books and the development of criteria for their selection. (Not given in 1938-1939.) *Five hours a week, winter quarter.* Professor Beust.

97. BOOK SELECTION FOR CHILDREN'S LIBRARIES (5).

A critical evaluation of children's books and a study of the appeals which books make to children with varying backgrounds and ability. Includes wide range of reading in fields of the classics for children, modern and traditional fairy tales, poetry and subject matter books with some attention given to story-telling and selection of illustrated editions; practice in oral reports, writing of book notes. (Not given in 1938-1939.) *Five hours a week, spring quarter.* Professor Beust.

99. PRINCIPLES AND METHODS OF SECONDARY EDUCATION (5).

Required of all prospective high school teachers:

(a) Theory and objectives of modern secondary education; types of organization of secondary education; the curriculum as related to aims of secondary education and modern American life; guidance in the secondary school.

(b) Theory and procedures of classroom and extra-curricular activities, classroom management; modern methods of teaching and measuring results of teaching; extra-curricular activities in secondary schools. *Five hours a week, fall or spring quarter.* Professor Douglass and staff.

Courses for Graduates and Advanced Undergraduates

(NOTE: The large majority of all graduate courses in education are given in one of the two summer terms every summer.)

101ab. BASIC PRINCIPLES AND TECHNIQUES IN EDUCATIONAL ADMINISTRATION (5).

The first half of this course will include the basic principles involved in school administration and is designed particularly for teachers who wish to get a review of the fundamentals of the organization and administration of American public schools, and for students desiring to prepare later for general administrative positions. Attention will be given to the organization, administration, and financial support of public schools in federal, state, and local school districts; work of school boards, retirement and tenure, professional ethics; public relations; and relationships of the teacher in modern educational administration.

The second half of the course will deal with practical techniques in educational administration concerning (1) teacher and pupil personnel problems; (2) school records, and reports; (3) age-grade progress studies; (4) pupil classification and promotion; (5) transportation and consolidation; and (6) general administration of allied school activities.

Two and a half hours a week, fall and winter quarters. Professor Maaske or Professor Phillips.

102. ELEMENTARY SCHOOL ORGANIZATION AND ADMINISTRATION (2½).

The qualifications, duties, and opportunities of the elementary school principal as an educational leader will be studied. Particular attention will be given to the practical organization of the staff, administrative organization of the instructional and extra-curricular program, classification and promotion of pupils, provision for atypical children, library service, and health education. It is designed particularly for elementary school principals, teachers, and others desirous of becoming

more familiar with the problems of elementary school administration. *Two and a half hours a week, winter quarter.* Professors Phillips, Maaske.

103ab. ELEMENTS OF STATISTICAL METHODS IN EDUCATION (5). Prerequisite, Education 71 or equivalent. Required for the Master of Arts in Education except in case of those doing historical research.

This course provides the statistical training necessary for understanding the reports of modern educational investigations and for conducting simple investigations. In 103a consideration will be given to procedures in tabulating data; calculating measures of average, variability; sampling the properties and applications of the normal probability curve and methods of measuring reliability of educational data, and the use of graphic methods in education. In 103b the major attention will be given to methods of measuring correlation and the interpretation of coefficients of correlation; continued study of sampling and reliability.

Two and a half hours a week, fall and winter quarters. Professor Jordan, Professor Maaske, or Professor Munch.

105ab. GUIDANCE AND ADMINISTRATION OF PUBLIC SCHOOL PUPILS (2½). Prerequisite, six full courses in education, including 103a or its equivalent.

(a) The first half of the course is a comprehensive introduction to the philosophy, areas, techniques, and plans of organization of guidance.

(b) The second half of the course is concerned with the interpretation of various types of guidance data and with the homeroom as an instrument for guidance. *Two and a half hours a week, alternate fall and winter quarters.* Professor Douglass or Professor Morrison.

106. GENERAL PRINCIPLES OF OCCUPATIONAL DIAGNOSIS AND GUIDANCE (5). Prerequisite, practical experience and at least two years of psychology and education.

This course is designed to provide a broad introduction to this field for graduate students who have had adequate training in general psychology and some practical experience in business, industry, or a profession. Two fairly distinct groups of students are invited to register for the course: (a) those who plan to become personnel or placement officers in public employment offices, industrial and commercial firms, schools, or colleges; (b) teachers, supervisors, and administrative school officers. *Five hours a week, alternate fall quarters.* Professor Bradshaw.

110. PHILOSOPHY OF MODERN EDUCATION (5).

The biological, psychological, and sociological principles underlying modern life in a democracy will be examined critically as a basis for a sound philosophy of modern education. Readings, reports, observations, and discussions. *Five hours a week, alternate fall quarters.* Professor Bradshaw.

121. EXTENSIVE READING PROGRAMS FOR HIGH SCHOOL PUPILS (5).

The object of the course is to study the reading interests of the adolescent group in classical, standard, and modern books and to

demonstrate how an extensive reading program may be correlated with the course of study. (Not given in 1938-1939.) *Five hours a week, winter quarter.* Professor Beust.

130. PRINCIPLES AND METHODS IN ADULT EDUCATION (2½).

Consideration will be given in this course to (1) principles in organizing adult study groups; (2) how adults learn; (3) guidance and counselling of adults; (4) preparing curriculum materials for adult groups; and (5) teaching and learning methods and techniques in adult education. It is designed for professional and lay leaders of adults and others interested in the administration and supervision of adult education. *Two and a half hours a week, alternate spring quarters.* Professor Maaske.

131. ADULT EDUCATION—A General Survey (2½).

Consideration will be given in this course to (1) current developments in adult education in the United States and foreign countries; (2) the history and philosophy of adult education; (3) the place of specialized fields in adult education; and (4) problems in managing adult education programs. It is particularly designed for teachers and supervisors in adult education, lay workers, school superintendents, and others interested in this field. *Two and a half hours a week, alternate spring quarters.* Professor Maaske.

141. EDUCATION IN THE SOUTH (5).

This course gives an historical survey of education in the Southern states with special attention to its development, organization, administration, and supervision since 1876. Problems in the educational reorganization needed for the solution of school problems in the Southern states will be studied. *Five hours a week, alternate spring quarters.* Professor Knight.

142. HISTORICAL FOUNDATIONS OF MODERN EDUCATION (5).

This course traces the development of some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of the leading educational theorists, and by institutional practices. Textbooks, lectures, investigations, and reports. *Five hours a week, winter quarter.* Professor Knight.

143. SOCIAL AND EDUCATIONAL HISTORY OF THE UNITED STATES (History 170) (5).

The social and educational institutions and practices of the United States are traced through: (a) the period of transplanting of European institutions; (b) the period of modifications of institutional life to meet new conditions; and (c) the period of development of a social and an educational system of free common schools, high schools, and higher and technical education in harmony with the political and social ideals and institutions of America. Textbook, lectures, investigations, and reports. *Five hours a week, fall quarter.* Professor Knight.

144ab. RURAL EDUCATION (5).

A course planned to meet the needs of rural school teachers, principals, supervisors, and superintendents. Consideration will be given to the organization, administration, and supervision of rural school

education in the United States, with special emphasis on present conditions in the South. *Five hours a week, alternate winter quarters.* Professor Maaske.

145. COMPARATIVE EDUCATION (5).

This is a course in comparative education with emphasis upon the modern educational experience of and the more significant educational movements in certain foreign countries. Attention will be given to education as a means of national advancement and to the development of retarded national cultures through education. *Five hours a week, spring quarter.* Professor Knight.

146. CONTEMPORARY ISSUES AND TRENDS IN EDUCATION (5).

A study of tendencies and developments in elementary, secondary, and higher education, and in teacher training in the United States since 1900. *Five hours a week, spring quarter.* Professor Knight.

152ab. THE TEACHING AND SUPERVISION OF THE LANGUAGE ARTS IN THE ELEMENTARY GRADES (5).

152a. Oral and written expression, spelling, penmanship, and grammar will be considered during the first half of this course. 152b. Reading and children's literature will be discussed during the second half of the course. *Five hours a week, alternate fall quarters.* Professor .....

154. THE TEACHING AND SUPERVISION OF THE SOCIAL STUDIES IN THE ELEMENTARY GRADES (2½).

The problems involved in supervising the organization, teaching, and evaluation of the elementary school program in history, geography, and the other social studies will be discussed in this course. Special attention will be given to recent experimental programs and recent materials. Readings, reports, investigations, and discussions. *Two and a half hours a week, alternate spring quarters.* Professor King.

155. THE TEACHING AND SUPERVISION OF THE NATURAL SCIENCES IN THE ELEMENTARY GRADES (2½).

This course considers the purposes and position of science in the elementary school curriculum, and seeks to lay a foundation for improved teaching within the field. Content will be largely determined by the needs of the particular group. *Two and a half hours a week, alternate spring quarters.* Professor Preston.

156. THE TEACHING AND SUPERVISION OF ARITHMETIC IN THE ELEMENTARY GRADES (2½).

The organization and selection of subject matter in arithmetic together with modern methods of teaching this subject in the elementary school. It is designed for both teachers and supervisors. *Two and a half hours a week, alternate spring quarters.* Professor.....

160ab. CURRICULUM CONSTRUCTION (5).

Open to seniors and graduate students with 25 quarter hours of credit in education.

(a) The general principles and techniques of curriculum construction on both elementary and secondary school levels will comprise the major part of this course. Special attention will be focused upon recent trends in curriculum revision and organization in our modern schools.

(b) This is a continuation of Education 160a in its *application* to the elementary and secondary schools. Problems and laboratory work will constitute a major part of the work. Special examination of recent state and city courses of study will aid in analyzing trends and proposed changes in the various subjects and activities of the curriculum. Individual and group committee work. *Two and a half hours a week, alternate fall and winter quarters.* Professor Gwynn.

161. TECHNIQUES AND PROCEDURES OF PROGRESSIVE EDUCATION (2½).

The philosophy, principles, and criteria of progressive education; application of progressive principles to developing and evaluating units in a course of study. Modern procedures for employing these units, so as to secure desired individual and social values, receive considerable attention. *Two and a half hours a week, alternate winter and spring quarters.* Professor McKee.

162. TEACHING PUPILS HOW TO STUDY (2½).

The physical and environmental factors that condition effective study, the necessary preliminary preparations for study, techniques for discovering a pupil's present study habits in each subject-matter field, the evaluation and improvement of study habits, and techniques for the supervision of practice and growth in each type of study will be conducted. *Two and a half hours a week, alternate winter quarters.* Professor McKee.

163. SELF EVALUATION AND SELF IMPROVEMENT OF CLASSROOM TEACHERS (2½).

The primary consideration in this course is the development of both the attitudes and techniques which will enable teachers to appraise and improve their classroom work. It will stress the purposes and needs for such self appraisal, the types and agencies of evaluation, the techniques which can be utilized, the interpretation of results, and the developing of practical programs of improvement. *Two and a half hours a week, alternate spring quarters.* Professor McKee.

165. INVESTIGATIONS IN READING (2½).

This course will deal more intensively with such phases of the subject as cannot receive adequate emphasis in the regular methods course. Among the topics which will receive special consideration are: recent investigations of reading abilities and their import; children's interests in reading; analysis of the content of readers now in use in school libraries; reading tests; diagnostic and remedial work. *Two and a half hours a week, alternate fall quarters.* Professor.....

170. PSYCHOLOGY OF THE ELEMENTARY SCHOOL SUBJECTS (5).

The applications of important findings of experimental research and of accepted theories of psychology to the effective teaching and learning of the materials in the various subject matter fields. Each subject will be treated in relation to its possibilities for the growth and development of socialized personalities, emphasizing both a motivated, constructive approach and a diagnostic remedial attack on pupil's liabilities and difficulties. *Two and a half hours a week, alternate fall and winter quarters.* Professor McKee or Professor Jordan.

171. GROWTH AND DEVELOPMENT OF THE SCHOOL CHILD (5).

a. Child development (2½). A study of the growth and develop-

ment of children up to the time of adolescence. Changes in emotions are emphasized as well as those of intellect.

b. Adolescence (2½). A study of the changes in emotions, attitudes and interests which take place during the adolescent years. The underlying physiological changes are, of course, not neglected. *Five hours a week, spring quarter.* Professor Jordan.

172. THE PROBLEMS OF MALADJUSTMENT AMONG CHILDREN (2½).

Factors of personality maladjustments, of delinquency, and of emotional instability; various methods of therapy to be followed in the treatment of the more typical behavior difficulties. Case studies will be used to analyze such classroom problems as fear, jealousy, social maladjustments, and failures. *Two and a half hours a week, winter quarter.* Dr. Perry.

173. MENTAL MEASUREMENTS (5). Prerequisite, one course in Educational Psychology or a course in general psychology.

A study of mental tests both individual and group. The origin of tests, followed by a comparative study of the various types of group and individual tests. Tests of intelligence, interests, emotional stability, and of other personality tests will be treated. Ample opportunity will be offered for the actual administration of tests and the interpretation of their results. *Five hours a week, alternate spring quarters.* Professor Jordan.

174. USE AND INTERPRETATION OF EDUCATIONAL TESTS AND MEASUREMENTS (5).

a. Study of the needs for objective measure of educational outcomes is first made. There follows a treatment of the elementary principles of test construction, of the criteria used in the selection and appraisal of tests, and of the best techniques to be used in constructing informal classroom tests.

b. A continuation of *a* into the specific fields of interest whether in high school or elementary school tests. A thoroughgoing analysis of the principles of test construction of standard tests is made as well as a survey of the tests in one or more fields. (Prerequisite 174a).

Five hours a week, fall quarter. Professor Jordan or Professor Morrison.

175. EXTRA-CURRICULAR ACTIVITIES (2½).

Clubs, student participation in school government, physical education, publicity in school publications, commencement, many miscellaneous topics, theoretical and practical studies of institutions promoting successful programs, bibliographical materials. *Two and a half hours a week, spring quarter.* Professor Meyer.

179. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL INSTRUMENTAL MUSIC (2½).

Supplementing the class instruction in band and orchestral instruments, this course is designed to give the student the necessary preparation for organizing and teaching instrumental music. Discussions and comparative study of materials and methods. *Two and a half hours a week, ... quarter.* Professor.....

180. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL CHORAL MUSIC (2½).

The principles and practice of choral singing, including the choral

technique employed in training *a capella* ensembles, with a survey of music materials suitable for school, college, and church choirs. *Two and a half hours a week, ... quarter.* Professor.....

181. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL ENGLISH (5). Prerequisite, courses to be determined by the instructor.

The aims, courses of study, and methods found most effective in the teaching of grammar, composition (oral and written), and the different types of literature to pupils of high school age. Applicants should be thoroughly grounded in the fundamental principles of English grammar, should write and speak well, and should have more than average ability to appreciate literature. *Five hours a week, fall or spring quarter.* Professor Farrar.

183. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL FRENCH (5). Prerequisite, courses to be determined by the instructor.

In this course the student studies the development of modern language teaching. Particular stress is laid on present-day tendencies, more especially in connection with pronunciation, phonetics, reading, "realia," activities, texts, etc. Weekly reports on reading. Term paper. *Five hours a week, every quarter.* Professor Giduz.

185. MATERIALS AND METHODS OF TEACHING THE SOCIAL STUDIES (5). Prerequisite, courses to be determined by the instructor.

This course is organized around the following major divisions: first, an introduction to the social studies, their development, scope, place in the curriculum, and objectives; second, the course of study, including organization of subject matter and selection of materials and equipment; third, methods of instruction, an examination and evaluation of certain techniques; fourth, the use of teaching aids, such as visual materials, workbooks, and current literature; and finally, the construction, use, and interpretation of tests in the social studies. Readings, special investigations, reports, and discussions. *Five hours a week, fall or winter quarter.* Professor King.

187. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL LATIN (5). Prerequisite, courses to be determined by the instructor.

The history of the teaching of Latin will be discussed along with modern tendencies of instruction in this field. A special study will be made of high school Latin texts, and reports and discussions will emphasize the various methods used in teaching them. Helpful bibliographies will be compiled and examined. *Five hours a week, winter quarter.* Professor Gwynn.

189. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL MATHEMATICS (5). Prerequisite, courses to be determined by the instructor.

A course designed to give those preparing to teach mathematics in high school a comprehensive view of that field. It is composed of six units as follows: history of mathematics, objectives of mathematics teaching, materials, methods, the psychology of mathematics teaching, and measuring achievement in the field of mathematics. Reading and reports on these units will be required. *Five hours a week, fall quarter.* Professor Munch.

191. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL SCIENCE (5). Prerequisite, courses to be determined by the instructor.

The objectives and curriculum position of secondary school science, the proper teaching viewpoint, instructional techniques, selection and use of equipment, evaluating results of science teaching. Trends of change in secondary school science in response to changing economic, social and educational developments are emphasized. Assigned readings introduce the important literature. *Five hours a week, fall or winter quarter.* Professor Preston.

193. MATERIALS AND METHODS OF TEACHING DRAMATICS IN HIGH SCHOOL (5). Prerequisite, courses to be determined by the instructor.

This course includes consideration of the teaching of oral English, the correction of speech faults, the teaching of dramatic literature and playwriting, the selection and production of plays, and the direction of dramatic clubs. To teach the written English required in the state elective in drama, applicants should be as well grounded in English fundamentals as applicants for Education 181. *Five hours a week, winter quarter.* Professor Farrar.

195. YOUTH PROBLEMS AND THE SCHOOLS (2½).

A survey of the principal problems of youth today along with some of the more recently developed youth-serving agencies: unemployment, marriage, citizenship, morality, health, religion, leisure, and recreation; needed adjustments in the schools. *Two and a half hours a week, alternate spring quarters.* Professor Douglass and others.

196. THE JUNIOR HIGH SCHOOL (2½).

Forces and conditions giving rise to the junior high school; its special purposes; plans of organization; curriculum; methods of teaching; extra-curricular activities; provisions for individual differences for teachers and administrators. *Two and a half hours a week, alternate fall quarters.* Professor Douglass.

197. SOCIAL POLICY AND EDUCATION (2½).

Fundamental problems in the social and ethical theory of education. Lectures, prescribed readings, essays, and reports. This course deals with problems of social progress from the standpoint of education, attempts to define a social policy for education, and discusses the vital educational issues involved in that policy. *Two and a half hours a week, alternate winter quarters.* Professors Douglass, McKee.

199. SECONDARY EDUCATION IN THE UNITED STATES (5). Prerequisite, four full courses in education.

The American high school, its evolution, organization, organization administration, functions, curriculum, and current developments. *Five hours a week, spring quarter.* Professor Douglass.

*DEPARTMENT OF ENGLISH

Professors: G. R. COFFMAN, F. H. KOCH, J. M. BOOKER, G. M. MCKIE, G. C. TAYLOR, W. F. THRALL, G. L. PAINE, A. P. HUDSON, A. C. HOWELL, DOUGALD MACMILLAN (Secretary), C. P. RUSSELL.

Associate Professors: E. E. ERICSON, RAYMOND ADAMS, R. P. BOND, W. A. OLSEN, R. B. SHARPE.

Assistant Professors: **R. P. MCCLAMROCH, H. K. RUSSELL, J. O. BAILEY, W. S. WELLS.

Instructors: W. L. WILSON, G. F. HORNER, E. H. HARTSELL, W. F. MCNEIR, J. K. SVENDSEN, G. G. GRUBB, G. H. DAGGETT, A. D. B. LANGSTON, K. G. PFEIFFER, E. S. MILLER, B. G. LUMPKIN, R. S. OSBORNE, D. A. BROWN.

Teaching Fellows: N. H. HENRY, FREDERICK SHEETZ, W. B. S. WILBURN.

Assistants: G. H. FOSTER, G. S. OHLMANN, P. H. DAVIS, JOE C. HORRELL, J. B. WILSON, H. F. WITTMEYER, W. L. MOSES, J. T. MCCULLEN, MARY T. ALLEN.

NOTE: English 1-2-3 and English 21-22-23 are prerequisite to all advanced courses in the department. Juniors will not be admitted to courses for advanced undergraduates except by special permission.

1-2-3. FRESHMAN ENGLISH (9). Required of all Freshmen.

English 1 (fall) has for its object practical control of the sentence as a rhetorical unit and an understanding of the relation of sentence structure to paragraph structure. English 2 (winter) centers attention upon the paragraph and begins consideration of the technical problems of the longer theme. English 3 (spring) is devoted to study of the structure and style of the essay, and undertakes an approach toward the problems of the literature course in the sophomore year. In all three quarters the student pursues directed readings, writes frequent themes, and has personal conferences with his instructor. Students with serious speech deficiencies will be given diagnostic tests and appropriate remedial advice and training. *Three hours a week, throughout the year.* Professors Hudson (Chairman), McKie, Harry Russell, Bailey, Wells; Messrs. Horner, W. L. Wilson, McNeir, Grubb, Hartsell, Langston, Svendsen, Foster, Daggett, Ohlmann, Lumpkin, Wittmeyer, Davis, Horrell, Miller, Pfeiffer, J. B. Wilson.

21-22-23. ENGLISH LITERATURE (9). Prerequisite, English 1-2-3. Sophomore requirement.

English 21, a course in modern literature, introduces the student to the various types of literature. English 22 and 23 present a chronolog-

* A student choosing English as his major field should take (a) Eng. 50; (b) one of the following: Eng. 91, 93, 95, 99, 163; (c) one of the following: Eng. 70, 112, 125; (d) one of the following: Eng. 79, 81, 82, 88, 89, 111, 121, 131, 141, 151; (e) four courses chosen as free electives from the advanced courses offered by the department (courses numbered from 41 to 199, with the exception of 51 and 59). Students who so desire may utilize all or some of these free electives to make up, in consultation with their adviser, a related group of courses representing some individual interest, such as writing, American literature, or a particular field of English literature.

Students planning to teach in the public high schools should consult the course program in English in the Teacher-Training Division, page 127.

Students interested in reading for honors in English should consult the statement on pp. .....

** Absent on leave 1938-1939.

ical introduction to English literature through the study of representative works. *Three hours a week, throughout the year.* Professor Adams (Chairman), Coffman, Booker, McKie, Taylor, Thrall, Paine, Hudson, Howell, MacMillan, Ericson, Bond, McClamroch, Olsen, Sharpe, Harry Russell, Bailey, Wells; Messrs. Horner, McNeir, Hartsell.

41. THE ORAL INTERPRETATION OF DRAMATIC LITERATURE (5).

Elizabethan, eighteenth-century, and modern plays are used to give variety in dramatic expression. *Five hours a week, fall quarter.* Professor McKie.

42. THE ORAL INTERPRETATION OF NON-DRAMATIC LITERATURE (5).

A wide variety of poetry from Milton to Masefield is the main material in this course, though work is required in the reading of suitable prose. *Five hours a week, spring quarter.* Professor McKie.

44. PUBLIC SPEAKING: INTRODUCTORY COURSE (5).

Emphasis on organization of material, outlines, delivery, problems of attention and persuasion. Assigned reading in contemporary public problems as a basis for speaking. *Five hours a week, every quarter.* Professor Olsen.

45. ARGUMENTATION AND PUBLIC DISCUSSION (5).

Includes analysis of questions, evidence, types of argument, fallacies, problems of persuasion, and practice in parliamentary procedure. *Five hours a week, winter quarter.* Professor Olsen.

50. SHAKESPEARE (5).

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. *Five hours a week, fall quarter.* Professor Taylor; *spring quarter,* Professor Koch.

Registration in English 51, 52, 53, 54, 59 is limited. Before registering for these courses, students must secure the permission of the instructors.

51. ADVANCED COMPOSITION: PRACTICAL EXPOSITION (5).

A course primarily for students in the Schools of Commerce and Pharmacy, designed to give practice in writing the forms commonly used in the business world: letters, reports, professional papers, and articles for the press. *Five hours a week, fall or spring quarter.* Professor Howell.

52. ADVANCED COMPOSITION: THE TECHNIQUE OF EXPOSITION (5).

A course in expository writing for students desiring practice in organization of material. *Five hours a week, fall quarter.* Professor Howell; *spring quarter,* Professor Phillips Russell.

53. CREATIVE WRITING (5).

Study of and practice in various forms of original and imaginative writing, including verse, the short story, and the novel. Class criticism and discussion. *Five hours a week, fall quarter.* Professor Phillips Russell.

54. CREATIVE WRITING (5).

To some extent parallel to English 53, but paying special attention to modern, experimental, and regional writing. *Five hours a week, winter quarter.* Professor Phillips Russell.

59. SCIENTIFIC WRITING (5).

Expository writing designed to meet the needs of students in the sciences. Practice in writing explanations, descriptions, simple business letters, professional papers, and reports. Conferences, reading in scientific periodicals, and reports. *Five hours a week, winter quarter.* Professor Howell.

70. CHAUCER (5).

The essential work of the course is a reading of *The Canterbury Tales* and certain other selected works of Chaucer with a view to revealing the poet as a literary artist. *Five hours a week, winter quarter.* Professor Coffman.

71-72-73. COURSES FOR HONORS (15).

Readings and the preparation of an essay, under the direction of departmental advisers. Normally the first course of reading is pursued in the junior year, the second course and the writing of the essay in the senior year. See the Program for Honors Work in the Division of the Humanities, page .....

76. MASTERPIECES OF THE NINETEENTH CENTURY.

The aim of this course is to reveal certain masterpieces of the past century as commentaries on man's relation to God, nature, woman, and the state. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Booker.

79. ENGLISH LITERATURE, 1890-1920 (5).

The aim of this course is to follow the main current of thought in the more significant literature of the three decades closing with the World War. *Five hours a week, fall quarter.* (1940-1941 and alternate years.) Professor Booker.

81. AMERICAN LITERATURE I (5).

A survey of American literature from 1830 to 1855, with especial attention to Poe, Emerson, Thoreau, Lowell, Hawthorne, and Melville. *Five hours a week, fall quarter.* Professor Adams.

82. AMERICAN LITERATURE II (5).

A survey of American literature from Whitman to the present with especial emphasis upon the literature of the South. The course includes a study of the local color movement, traces the rise of realism, and surveys the social novel after 1880. *Five hours a week, winter quarter.* Professor Adams.

83. PROSE AND POETRY OF THE CLASSICAL PERIOD (5).

The chief works of the major writers of the Classical Period will be studied in connection with the historical, social, and philosophical background. The approach will be critical and scholarly, and bibliographical phases of the subject will be subordinated to an appreciation of literary merit. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Bond.

84. THE CHIEF ROMANTIC POETS (5).

The course will include the best poetry, and some of the letters and critical writing of Burns, Wordsworth, Coleridge, Byron, Shelly, and Keats. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Hudson.

87. LITERARY ASPECTS OF THE BIBLE (5).

A study of the literary aspects of the Bible in English translation, with discussion of types and forms of literature, historical development of the Bible, the principal translations, and the influence of the Bible on English literature and on the language. *Five hours a week, spring quarter.* Professor Howell.

88. VICTORIAN POETS (5).

Representative poems of Tennyson, Browning, Arnold, Rossetti, Morris, Swinburne, and Meredith considered as art, as expressions of their authors' personalities, and as commentaries upon life—to a large extent upon the life of the spirit in an age of religious unrest. *Five hours a week, winter quarter.* Professor Booker.

89. VICTORIAN WRITERS OF PROSE (5).

Representative novels and other works in prose of Carlyle, Dickens, Thackeray, Charlotte Brontë, Ruskin, George Eliot, and Meredith considered as art, as expressions of their authors' personalities, and as commentaries upon life—to a large extent upon the social and economic life of the "Mother Age" to our own times. *Five hours a week, spring quarter.* Professor Booker.

91. THE ENGLISH NOVEL (5).

A study of the English novel from Defoe to Hardy. *Five hours a week, winter quarter.* Professor MacMillan.

93. ENGLISH DRAMA (5).

A study of English drama from the beginning to 1900. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Sharpe.

95. MODERN ENGLISH LANGUAGE (5).

A study of English of the present day, standard as well as dialectal. The historical background and development of English. Comparative studies in British and American English. *Five hours a week, spring quarter.* Professor Ericson.

97. CONTEMPORARY LITERATURE (5).

A study of English and American prose writings since 1920. Representative works will be analyzed and related to the cultural influences of the period. *Five hours a week, winter quarter.* Professor Harry Russell.

98. CONTEMPORARY POETRY (5).

A study of selections from American and English poets whose work has achieved an individual yet essentially homogeneous expression chiefly since 1918. (Not offered 1938-1939.) *Five hours a week, spring quarter.* Professor McClamroch.

99. HISTORY OF ENGLISH LITERATURE (5).

This course is designed to strengthen the student's factual framework of essential literary history and to enable him to supplement the

gaps in his first hand knowledge of important and significant literary productions. It is required of seniors with majors in English whose course average in the department is lower than B, but open to all who desire to prepare for the comprehensive examination. *Five hours a week, fall quarter.* Professor Sharpe.

DEBATING (3).

A course in the discussion and analysis of current public questions. Occasional lectures by various members of the faculty. *Weekly meetings throughout the year.* Professor Olsen (Chairman).

Courses for Graduates and Advanced Undergraduates

Except by special permission juniors will not be admitted to these courses.

101. OLD ENGLISH GRAMMAR AND READINGS (5).

Selections for translations from Early and Late West Saxon prose and from Old English poetry. Drill in the principles of English philology. Old English in relation to the other Germanic languages. *Five hours a week, fall quarter.* Professor Ericson.

105. MEDIEVAL ROMANCE IN ENGLISH (5).

A survey of medieval romance and romance materials in English literature, with particular attention to the Arthurian tradition. *Five hours a week, spring quarter.* Professor Thrall.

111. ENGLISH LITERATURE OF THE RENAISSANCE (5).

A survey of the literature of the Elizabethan period, exclusive of the drama. *Five hours a week, fall quarter.* Professor Thrall.

112. SPENSER (5).

The works of Spenser are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, winter quarter.* Professor Thrall.

113. ENGLISH DRAMA TO 1600 (5).

English Drama in the Sixteenth Century with preliminary consideration of the religious drama in Western Europe and in Medieval England. *Five hours a week, fall quarter.* Professor Coffman.

114. ENGLISH DRAMA, 1600-1642 (5).

Five hours a week, winter quarter. Professor Sharpe.

121. ENGLISH LITERATURE, 1616-1700 (5).

The non-dramatic literature of the period. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Howell.

125. MILTON (5).

The works of Milton are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, fall quarter.* Professor Taylor.

131. ENGLISH LITERATURE, 1700-1780 (5).

The non-dramatic literature of the period. *Five hours a week, fall quarter.* Professor MacMillan (1939), Professor Bond (1940).

133. RESTORATION AND EIGHTEENTH-CENTURY DRAMA (5).

A study of the drama from 1660 to 1780. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor MacMillan.

141. ENGLISH LITERATURE, 1780-1830 (5).

A survey of English literature of the romantic period with especial attention to the greater poets. *Five hours a week, winter quarter.* Professor Hudson.

148. ENGLISH DRAMA, 1780-1880 (5).

Romantic and Victorian drama studied in the light of theatrical and social conditions and with attention to Continental influences. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor MacMillan.

149. AMERICAN DRAMA, 1890-1930 (5).

A brief survey of the nineteenth century English and American drama, and a study of the development of the American drama in the twentieth century through representative plays. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Koch.

151. EARLY AMERICAN LITERATURE (5).

A survey of the literature of the colonial, revolutionary, and early national periods, including Bryant, Irving, and Cooper. *Five hours a week, fall quarter.* Professor Paine.

161. COMPARATIVE DRAMA (5).

A general survey of the drama and the theatre from Aeschylus to Ibsen. The development of dramatic literature is studied through representative plays (in translation) of the leading European dramatists. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Koch.

162. MODERN DRAMA (5).

A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Koch.

163. LITERARY CRITICISM (5).

The principles which have animated classical, romantic, and realistic literature. *Five hours a week, winter quarter.* Professor Bond.

167. THE ENGLISH BALLAD (5).

The study of the English and Scottish popular ballads, with a survey of ballad survivals in America, particularly in North Carolina. Students in the course who may have access to ballads in oral circulation will be encouraged to collect them. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Hudson.

*DEPARTMENT OF GENERAL AND COMPARATIVE LITERATURE

Professors: HUSE (Acting Chairman), KOCH, HARRER, DEY, HOLMES, THRALL, TAYLOR, COFFMAN, N. B. ADAMS, LYONS, HOWELL, JENTE.

Associate Professors: SANDERS, BOGGS, STOUDEMIRE, BOND, WILEY, EPPS.

Assistant Professors: FRIEDERICH, LINKER.

Courses for Undergraduates

50. A SURVEY OF WORLD LITERATURE: GREEK AND ROMAN LITERATURE (5).

A course on the great authors of Greece and Rome. Emphasis is on understanding the classics as literature and as a reflection of the civilization, culture, and viewpoints of antiquity. *Five hours a week, winter quarter.* Professors Epps, Harrer.

51. A SURVEY OF WORLD LITERATURE: THE MODERN PERIOD (5).

This is a continuation of the preceding courses. It will survey briefly the principal contributions to world literature from Italy, Spain, France, Germany, Russia, and the Scandinavian countries. *Five hours a week, spring quarter.* Professor Dey.

61. GREEK LITERATURE (5).

A survey of Greek literature in English translation, with special reference to the contribution of Greece to modern thought, and to literary forms. *Five hours a week, fall quarter.* Professor Epps.

62. LATIN LITERATURE (5).

A study of the masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Professor Sanders.

64. GREEK AND ROMAN COMEDY (5).

Extensive reading of the comedies of Aristophanes, Menander, Plautus, and Terence in English translation, with attention to the form and characteristics of each and to the history of comedy in the Greek and Roman world. *Five hours a week, winter quarter.* Professors Epps, Harrer.

65. ORIENTAL LITERATURE (5).

The epics, dramas, etc., of the Hindus, Chinese, and other peoples are studied for their revelation of the Oriental outlook on life, and for their contribution to Occidental literature and thought. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Holmes.

---

* The purposes of courses in this department are: to offer students who cannot study certain of the classical and modern languages an opportunity to become familiar with the most important works translated from them; to furnish a view of the culture and values of the past and of various nations; to present a survey of the most important figures in world literature, including English; and to provide, in the case of certain courses, a more strictly comparative study of literary forms and movements.

An undergraduate major in the department consists normally of six to eight of the following courses (at least two of which must be from the classics): Homer; Vergil; the Greek Drama; Cervantes; Shakespeare; Milton; French Classicism; Lessing and Schiller; Goethe, and Dante. In case of special needs other courses in the department may be substituted.

68. SHAKESPEARE (5). (Same as English 50.)

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. *Five hours a week, fall quarter,* Professor Taylor; *spring quarter,* Professor Koch.

70. CHAUCER (5).

The essential work of the course is a reading of *The Canterbury Tales* and certain other selected works of Chaucer with a view to revealing the poet as a literary artist. *Five hours a week, winter quarter.* Professor Coffman.

87. LITERARY ASPECTS OF THE BIBLE (5).

A study of the literary aspects of the Bible in English translation, with discussion of types and forms of literature, historical development of the Bible, the principal translations, and the influence of the Bible on English literature and on the language. *Five hours a week, spring quarter.* Professor Howell.

Courses for Graduates and Advanced Undergraduates

103. GREEK AND ROMAN EPIC (5).

Homer's Iliad and Odyssey, Vergil's Aeneid, and the minor Greek and Roman Epics. The ancient epic forms and characteristics will be studied. *Five hours a week, spring quarter.* Professors Epps, Harrer.

107. GREEK DRAMATIC LITERATURE (5).

Extensive reading of the Greek tragedies, with attention to the origin, development and content of Greek drama, and the Greek approach to life as presented in Greek tragedy. *Five hours a week, fall quarter.* Professor Epps.

117. CERVANTES (5).

Consideration of the Romances of Chivalry in Spain; study of Cervantes' *Don Quixote* and the *Exemplary Novels* in English translation. *Five hours a week, spring quarter.* Professor Stoudemire.

125. MILTON (5).

The works of Milton are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, fall quarter.* Professor Taylor.

135. FRENCH CLASSICISM (5).

A general survey of the origins of classicism in France. Assigned readings in the Greek and Latin writers with emphasis on the modification of their art which explains the masterpieces of the French 17th century. A large part of the course will be given over to the plays of Corneille, Molière, Racine, and their contemporaries. The decline of classicism in France, and the evolution toward an unrestricted type of literature. *Five hours a week, spring quarter.* Professor Wiley.

137. A BRIEF SURVEY OF GERMAN LITERATURE (5).

The main trends in the development of German literature from its beginning to the present time. Lectures and extensive outside readings in English. This course is especially designed for seniors and graduate students, and cannot be taken for credit by students whose major is in German. *Five hours a week, fall quarter.* Professor Friederich.

155. GOETHE (5).

A study of the man, thinker, and poet in connection with the German and general European movements of thought and literature in his time. Lectures and reports. *Five hours a week, spring quarter.* Professor Friederich.

156. DANTE (5).

A study of translations of the *Vita Nuova* and the *Divine Comedy;* the precursors of Dante and the poets of the *dolce stil nuovo.* Special studies of Dante's political and social philosophy, with particular emphasis on Dante as a poet and as a guide. *Five hours a week, winter quarter.* Professor Huse.

161. COMPARATIVE DRAMA (5).

A general survey of the drama and the theatre from Aeschlyus to Ibsen. Special attention is given to the function of the drama in representative plays of the leading European dramatists. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Koch.

162. MODERN DRAMA (5).

A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Koch.

163. LITERARY CRITICISM (5).

The principles which have animated classical, romantic, and realistic literature. *Five hours a week, winter quarter.* Professor Bond.

170. THE MIDDLE AGES (5).

A survey of Medieval France, England, Germany, Spain, Italy, and Byzantium, from the point of view of civilization and especially of art and literature. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Holmes.

173. MEDIEVAL ROMANCE (5). (Same as English 105.)

A survey of Medieval romance and romance materials in English literature, with particular attention to the Athurian tradition. *Five hours a week, spring quarter.* Professor Thrall.

175. THE RENAISSANCE (5).

An account of the establishment of modern European culture. Lectures on the history, science, fine arts, literary scholarship, and literature of the Renaissance in Italy, France, Germany, the Netherlands, and England. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professors Holmes (Chairman), Adams, Lyons, Friederich, Linker.

177. LITERARY INFLUENCES IN FRANCE, GERMANY, AND ENGLAND IN THE EIGHTEENTH CENTURY (5).

The *Querelle des Anciens et des Modernes;* French classicism (Voltaire) in its defense against growing English Pre-romanticism and German Sturm und Drang. The influence of Shakespeare and Milton on the continent, of Rousseau, Goethe, and Schiller in France and England. *Five hours a week, winter quarter.* Professor Friederich.

185. INTRODUCTION TO FOLKLORE (5).

Origin, evolution, and bibliography of types. Literary significance, as seen in the development of prose fiction. Collections, such as the *Panchatantra, Seven Sages, Arabian Nights,* etc., and the continuation of these tales through medieval and modern literature. *Five hours a week, fall quarter.* Professor Boggs.

*DEPARTMENT OF GEOLOGY AND GEOGRAPHY

Professor: W. F. PROUTY.
Associate Professors: **G. R. MACCARTHY, L. D. BURLING.
Assistant Professors: S. T. EMORY, J. W. HUDDLE, F. C. ERICKSON, W. H. IRWIN.
Instructors: H. W. STRALEY III, C. E. PROUTY.
Teaching Fellow: W. R. JOHNSON, JR.
Assistants: R. O. BLOOMER, W. H. LEVITT, J. C. MCCAMPBELL.

GEOLOGY

Courses for Undergraduates

3b. (Natural Science 3b). ELEMENTS OF GEOLOGY (4). Freshman elective. See Departments of Botany and Zoology for Natural Science 1 and 2.

A brief survey of the field of geology. The course emphasizes the geologic basis of North American scenery and the geologic factors in modern civilization. A field trip is required. *Three lecture and two laboratory hours a week, winter or spring quarter. Laboratory and field trip fee, $2.00.* Professor Huddle; Assistant.

21-22-23 (11-12-13). INTRODUCTION TO GEOLOGY (12).

An introductory course in physical and historical geology. The structure, composition, surface expression, and history of the earth and its inhabitants are studied. Lectures, laboratory, and required field work. *Three lecture and two laboratory hours a week, throughout the year. Laboratory fee, $2.00 a quarter.* Professors Prouty, MacCarthy, Burling, Huddle, Irwin; Assistants.

41-42. INTRODUCTION TO GEOLOGY (12).

This course is equivalent to Geology 21-22-23, but is given in two quarters instead of three. *Four lecture and four laboratory hours a week, winter and spring quarters. Laboratory fee, $3.00 a quarter.* Professors Prouty, MacCarthy, Burling, Huddle, Irwin; Assistants.

---

* For A.B. with major in Geology there are required beyond Introduction to Geology: Geology 101, 102, 103, 104, 105, 106 or 107, 108, 109. The introductory courses in chemistry and physics are required, but may be taken in the General College. Four additional courses are to be chosen from allied departments, and six courses outside the Division of Natural Sciences.

For S.B. in Geology, there are required: Freshman Year—Geology 21-22-23, or 41-42, English 1-2-3, Math. 1-2-3, Foreign Language 1-2-3 (or 11-12-13), Hygiene 1-2-3, Physical Education 1-2-3; Sophomore Year—Geography 31-32-33, English 21-22-23, Chemistry 1-2-3, Math. 41, 51, 52, Social Science 1-2-3. Further requirements are: Geology 101, 102, 103, 104, 105, 106, 107, 108, 109; Physics 21-22-23, Foreign Language or English 59 and 44, Zoology 41 or Botany 41 (In special cases, an advanced science course other than geology may be substituted) and the summer Field Course in Geology 128-129. A total of 194 quarter hours are required for graduation.

For A.B. with major in Geography see footnote on page 149.

** Absent on leave, 1938-1939.

Courses for Graduates and Advanced Undergraduates

101 (43). MINERALOGY (5). Prerequisite, Chemistry 1-2-3 or 4-5.

Elementary crystallography; physical and chemical properties and the classification of minerals; laboratory practice in the identification of important minerals. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Professor Irwin.

102 (133). LITHOLOGY AND THE ELEMENTS OF PETROLOGY (5). Prerequisite, Geology 21-22-23 or 41-42, and 101.

An introductory study of the origin, classification, and distribution of rocks with special emphasis on the hand specimen identification of common igneous, sedimentary, and metamorphic rock types. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $3.50.* Professor Irwin.

103 (121). FIELD GEOLOGY (5). Prerequisite, Geology 101, 102, Mathematics 41, 51, 52.

A course in geologic field methods with special emphasis on geologic surveying, mapping, note taking, and field practice. *Three lecture and four laboratory hours a week, spring quarter. Laboratory fee, $3.50.* Professor Prouty.

104, 105, 106 (77, 78, 47). ADVANCED GENERAL GEOLOGY (5 each). Prerequisite, Geology 103, Physics 21-22-23 or 24-25.

A professional course in general geology. The first quarter deals with the physical processes of dynamic geology; the second quarter deals with historical geology from the stratigraphic standpoint; and the third quarter with historical geology from the paleontologic viewpoint. *Three lecture and four laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50.* Professors MacCarthy, Burling, Huddle; Mr. C. E. Prouty.

107 (122). STRUCTURAL GEOLOGY (5). Prerequisite, Geology 103, Physics 21-22-23 or 24-25.

A general course in geologic structure and its relation to exploratory geology. *Three lecture and four laboratory hours a week, fall quarter. Laboratory fee, $3.50.* Professor Prouty.

108 (111). ECONOMIC GEOLOGY (5). Prerequisite, Geology 107.

Principles of ore formation, including both metallic and nonmetallic minerals. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $3.50.* Professor Prouty.

109 (105). ELEMENTS OF GEOPHYSICS (5). Prerequisite, Geology 107, Mathematics 3, Physics 21-22-23 or 24-25.

The fundamental principles of geophysics and their application to practical problems. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $5.00.* Professors MacCarthy, Burling; Mr. Johnson.

121 (156). GEOMORPHOLOGY (5). Prerequisite, Geology 21-22-23 or 41-42.

Lectures, field work, and laboratory work, dealing in detail with physiographic processes and their results; geomorphology. An extended field study is required in this course. (Not given in 1938-1939.) *Five hours a week, lectures and laboratory, spring quarter. Laboratory fee, $2.00.* Professor MacCarthy.

128-129 (48-49). SUMMER FIELD COURSE IN GEOLOGY (10). Prerequisite, Geology 101, 102, 103.

A six weeks' course to be given in North Carolina and bordering states. This course will coincide with the scheduled six weeks' summer-school course. It may also be taken on the transcontinental tour. *Equivalent to five hours a week for two quarters.* Professors Prouty, Huddle.

144-145 (134, 135). PETROGRAPHY (10). Prerequisite, Geology 101, 102.

Introduction to optical mineralogy and the use of the polarizing microscope in the identification of minerals in thin section and crushed fragments; microscopic study of rocks. *Three lecture and four laboratory hours a week, fall and spring quarters. Laboratory fee, $3.50 a quarter.* Professor Irwin.

147 (44). DETERMINATIVE MINERALOGY (5). Prerequisite, Geology 101.

The determination of metallic and non-metallic minerals, chiefly by blowpipe analysis. *Two lecture and six laboratory hours a week, winter quarter. Laboratory fee, $5.00.* Professor Irwin.

161 (45). METEOROLOGY (5).

A study of the atmosphere and the factors controlling the weather; the making and interpretation of weather maps; weather forecasting. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $2.50.* Professors MacCarthy, Burling.

168, 169 (106, 107). FIELD WORK IN GEOPHYSICS (10). Prerequisite, Geology 109, Physics 21-22-23 or 24-25.

Practical application of the magnetometer and of electrical methods to field problems. *Summer and on application.* Professors MacCarthy, Burling; Dr. Straley.

*GEOGRAPHY

Courses for Undergraduates

3c. (Natural Science 3c). GEOGRAPHY FOR COMMERCE STUDENTS (4). Freshman requirement for those expecting to go into the School of Commerce.

Elements of geography with emphasis on: place location, the basic principles accounting for climates and man's activities peculiar to the important climatic regions, a brief survey of earth materials for an understanding of the location and occurrence of important natural resources, a summary indicating the influence of these elements on present economic life. *Three lecture and two laboratory hours a week, each quarter. Laboratory fee, $2.00.* Professors Emory, Erickson.

31-32-33 (15, 51, 52). INTRODUCTION TO GEOGRAPHY (12).

An introductory course primarily for freshmen and sophomores. The first quarter is a regional study of the principles underlying the climate, relief, native vegetation, soils, and distribution of minerals and metals of the world; the second quarter deals with the geographical

* For A.B. with major in Geography, there are required, in addition to Geography 31-32-33, and Geology 21-22-23 or 41-42, six courses in Geography and Geology and six courses in allied studies, selected with the approval of the Head of the Department of Geology and Geography. Six courses must be taken outside of the Division of Natural Sciences. Geography 31-32-33 is recommended as preparation for all advanced Geography courses.

distribution of agricultural products; and the third quarter, with the distribution of minerals, metals, and manufacturing. *Three lecture and two laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $2.00.* Professors Emory, Erickson.

74 (14). GEOGRAPHY FOR TEACHERS (3).

A course designed to acquaint teachers with the fundamentals of geography. The most important factors of the physical environment are studied in their relationship to human activities. *Three hours a week, winter quarter.* Professors Emory, Erickson.

Courses for Graduates and Advanced Undergraduates

117. SOILS (5). Prerequisite, Introductory Geology.

A general study of the origin of soil material, the factors affecting soil formation and the nature, classification, and distribution of soils. Field trips will be conducted to study the distribution and types of soil in North Carolina. *Five hours a week, winter quarter. Laboratory fee, $2.50.* Professor Erickson.

118. SOIL EROSION AND LAND UTILIZATION MAPPING (5). Prerequisite, Geography 117.

The first half of this course is designed to deal with the factors of soil erosion and some methods of soil control. This will be followed by methods of land utilization mapping with the purpose of relating land use to the types of soil. *Five hours a week, spring quarter. Laboratory fee, $2.50.* Professor Erickson.

153 (53). POLITICAL GEOGRAPHY (5).

The course deals with geographic factors affecting international relations. *Equivalent of five hours a week, fall quarter. Laboratory fee, $2.50.* Professors Emory, Erickson.

154 (60). GEOGRAPHICAL INFLUENCES IN AMERICAN HISTORY (5).

A chronological study of the influence of geographical factors on the development of North America, with particular emphasis on the United States. *Five hours a week, spring quarter.* Professor Emory.

155. CLIMATOLOGY (5). Prerequisite, Geography 31-32-33.

A course dealing with the essential facts of weather and climate, the climatic regions of the earth, world distribution of temperatures, winds, and precipitation. Various classifications of climates will be presented with the purpose of giving a better understanding of the climatic factor in man's environment. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Erickson.

156. CONSERVATION OF NATURAL RESOURCES (5).

A general study of natural resources, including soils, forests, water supply, minerals, and metals; waste of natural resources, and methods of resource conservation: and problems involved in the establishment of policies of conversation. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Erickson.

157 (57). GEOGRAPHY OF NORTH AMERICA (5).

This course deals with the physical features, soils, minerals, climatic resources, and transportation facilities of North America. *Five hours a week, reading and reports, winter quarter.* Professors Emory, Erickson.

158 (58). GEOGRAPHY OF EUROPE (5).

A study of the physical, economic, political, and social conditions of Europe. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Erickson.

159 (59). GEOGRAPHY OF SOUTH AMERICA (5).

A study of the physical, economic, and social conditions of South America, showing the present and future possibilities of the various regions and countries. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Erickson.

178, 179. FIELD COURSE IN GEOGRAPHY. Prerequisite, Geography 31-32-33, Geology 21-22-23 or 41-42.

For information on this work the interested student should consult the Department.

*DEPARTMENT OF GERMANIC LANGUAGES

Professors: Richard Jente, K. J. Brown.
Associate Professor: G. S. Lane.
Assistant Professors: W. P. Friederich, F. E. Coenen.
Teaching Fellow: J. E. Craps.
Assistants: A. W. Beerbaum, J. F. Cook, A. L. Lancaster, B. T. Moss.

Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE GERMAN (9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate German (11-12-13). The completion of this work gives credit for Intermediate German. *Six hours a week, through the year.* Messrs. Beerbaum, Cook, Craps, Lancaster, Moss.

11-12-13. INTERMEDIATE GERMAN (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and sophomore elective. *Three hours a week, through the year.* Professors Jente, Coenen.

14-15-16. BEGINNING GERMAN FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially well qualified for such study. Sophomore elective. *Three hours a week, through the year.* Professor Jente.

21-22-23. INTRODUCTION TO GERMAN LITERATURE (9). Prerequisite, German 1-2-3 or 11-12-13 or the equivalent.

Survey of German literature from the Classical period to modern times with selected readings from respresentative authors. Sophomore elective. *Three hours a week, through the year.* Professors Jente, Brown, Friederich, Coenen.

---

* Students are requested to consult with the departmental adviser in regard to the requirements for a major in German.

24-25-26. SCIENTIFIC GERMAN (9). Prerequisite, German 1-2-3 or 11-12-13 or equivalent.

Open only to students with majors in a science. *Three hours a week, through the year.* Professors Coenen, Friederich.

71. ADVANCED GRAMMAR AND SYNTAX (5). Prerequisite, German 23 or equivalent.

A course open to juniors and seniors who wish to improve their knowledge of German grammar and idiom. Intensive review of grammar in connection with written composition. *Five hours a week, spring quarter.* Professor Coenen.

Courses for Graduates and Advanced Undergraduates

101-102-103 (51). WRITING AND SPEAKING GERMAN; PHONETICS (9). Prerequisite, German 23, or by special permission. *Three hours a week, through the year.* Professor Coenen.

109. GERMAN PROSE IN THE NINETEENTH CENTURY (5). Prerequisite, German 23.

Five hours a week, winter quarter. Professor Coenen.

111. GERMAN DRAMA IN THE NINETEENTH CENTURY (5). Prerequisite, German 23.

Kleist, Grillparzer, Hebbel, Ludwig, Hauptmann. Readings, lectures, reports. *Five hours a week, spring quarter.* Professor Brown.

115. THE GERMAN LYRIC FROM GOETHE TO THE PRESENT (5). Prerequisite, German 23.

Five hours a week, fall quarter. Professor Jente.

121-122 (101-102). GOETHE (10). Prerequisite, German 23.

Study of his life. Reading and interpretation of representative works. Lectures and reports. *Five hours a week, fall and winter quarters.* Professor Brown.

123. FAUST (5). Prerequisite, German 23.

Goethe: *Faust,* Parts I and II. *Five hours a week, spring quarter.* Professor Brown.

131. LESSING AND HIS TIME (5). Prerequisite, German 23.

New trends in German literature from 1700 to 1780. French and English influences. Wieland, Klopstock, Herder. Lectures, translation, and reports. *Five hours a week, spring quarter.* Professor Friederich.

141 (132). SCHILLER (5). Prerequisite, German 23.

Study of Schiller's life and works with emphasis on his historical dramas. Lectures, translation, and reports. *Five hours a week, spring quarter.* Professor Jente.

151. CONTEMPORARY GERMAN LITERATURE (1885-1930) (5). Prerequisite, German 23.

A study of German literature from Naturalism to recent times. Lectures, readings, and reports. *Five hours a week, winter quarter.* Professor Jente.

155. GOETHE IN ENGLISH TRANSLATION. (For description see General and Comparative Literature 155.)

Five hours a week, spring quarter. Professor Jente.

161. HISTORY OF THE GERMAN LANGUAGE (5). Prerequisite, a good reading knowledge of German.

Five hours a week, fall quarter. Professor Lane.

171 (61). GERMAN CIVILIZATION (5). Prerequisite, German 101-102-103.

Lectures on German geography, history, institutions, art, music, and customs. All lectures, discussions, and reports are in German. *Five hours a week, winter quarter.* Professor Friederich.

*DEPARTMENT OF HISTORY

Professors: A. R. Newsome, H. M. Wagstaff, W. W. Pierson, M. B. Garrett, W. E. Caldwell, L. C. MacKinney, H. T. Lefler, F. M. Green, **H. K. Beale.

Assistant Professors: ***J. C. Russell, Cecil Johnson, C. H. Pegg.

Instructors: J. C. Sitterson, J. L. Godfrey, George E. Mowry, J. C. Ward.

Teaching Fellows: S. W. Martin, A. H. McLeod, J. W. Rabun.

Assistant: E. A. Hammond.

Courses for Undergraduates

1-2-3. SOCIAL SCIENCE (9). Freshman requirement.

A survey of the chief factors in Western Civilization, designed to throw light on the institutions, ideas, and problems of the present. Prerequisite to all other history courses. *Fee for materials, $1.00 each quarter. Three hours a week, throughout the year.* Professors Johnson, Pegg; Messrs. Sitterson, Godfrey, Mowry; Professors Wager (Political Science), Buchanan (Economics); Messrs. Bonnell (Economics), Dugan (Political Science), Lovejoy (Sociology), Ward, McLeod (History).

20. AMERICAN BIOGRAPHY (5). Freshman or sophomore elective.

Five hours a week, spring quarter. Professor Green.

21-22-23. AMERICAN HISTORY: GENERAL COURSE (9). Sophomore elective. A survey course of American history from early colonial times to the present. *Three hours a week, throughout the year.* Professors Green, Beale.

---

* A student choosing History as his department of major interest must elect either American history or European history as his field of specialization and complete a minimum of six approved courses of advanced level. The requirement for the major in American history shall be eight approved courses of advanced level, if the student has not completed History 21-22-23 or History 71-72 with a minimal grade of B; and for a major in European history a like number (eight) if the student has not completed History 41-42, History 44-45-46, or History 48-49, with a minimal grade of B. The student must take at least four of his six or five of his eight courses from his field of specialization; he may elect the remaining courses of his major from the other field. All history courses numbered above 50, except History 71-72, may be credited toward the major.

Those students who plan to teach in public high schools should read the footnote on page 127.

Students wishing to read for Honors in History should consult the regulations governing the honors program in the Divisions of Humanities and Social Sciences on pages 72-73, and also confer with the head of the department.

** Absent on leave, fall quarter, 1938.

*** Absent on leave, 1938-1939.

41-42. ANCIENT AND MEDIEVAL HISTORY: GENERAL COURSE (10). Sophomore elective.

The history of civilization from its beginnings to 1500 A.D. The first half is devoted to the Orient, Greece, and Rome to the time of Constantine; the second half, to Western Europe from the time of Rome's decline to the age of the Renaissance and Reformation. *Five hours a week, winter and spring quarters.* Professors Caldwell, MacKinney.

44-45-46. ENGLISH HISTORY: GENERAL COURSE (9). Sophomore elective.

A survey course in British history from early times to the present. *Three hours a week, throughout the year.* Professor Wagstaff.

48. MODERN EUROPEAN HISTORY, 1500-1815 (5). Sophomore elective, open to juniors and seniors.

A general course dealing with fundamental factors in European civilization; commercial revolution, Protestant Revolt, dynastic rivalries, ancient regime, French Revolution. *Five hours a week, spring quarter.* Professor Garrett.

49. MODERN EUROPEAN HISTORY SINCE 1815 (5). Sophomore elective, open to juniors and seniors.

A general course dealing with fundamental factors in European civilization: industrial revolution, democracy, nationalism, socialism, World War. *Five hours a week, fall quarter.* Professor Garrett.

51. THE ORIENT AND EARLY GREECE (5).

The history of the Bronze Age in the Mediterranean, and of civilization in Egypt, Babylonia, Syria and Palestine, and Crete to the time of the Persian Empire. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Caldwell.

52. GREECE: THE CLASSICAL PERIOD (5).

A history of the classical period of ancient Greece with particular attention to the growth of democracy, and to social, economic, artistic, literary, and religious developments. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Caldwell.

53. HELLENISTIC GREECE AND THE ROMAN REPUBLIC (5).

A survey of the Greek world in the post-Alexandrian epoch and the history of Rome to the death of Caesar. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Caldwell.

54. THE ROMAN EMPIRE (5).

The history of Rome from Augustus to Constantine—organization and administration; social, economic, and religious developments; the decline of ancient culture; and the rise of Christianity. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Caldwell.

64. EARLY MEDIEVAL EUROPE: THE "DARK" AGES, 300-1000 (5).

The evolution of medieval civilization; declining Rome, victorious Christianity, and migrating Germanic peoples; the rise and disintegration of the empire of Charles the Great. Government, religion, and culture during the "Dark" Ages. *Five hours a week, fall quarter.* Professor MacKinney.

65. EUROPE IN THE CRUSADING AGE, 1000-1300 (5).

The expansion of Europe in the Crusades; the struggle between Church and State; the rise of national monarchies and culture. *Five hours a week, winter quarter.* Professor MacKinney.

66. THE AGE OF THE RENAISSANCE, 1250-1550 (5).

The evolution of modern civilization in Italy and the transalpine countries; the blending of medieval and classical elements; the political and economic background; the rise of vernacular literatures; the arts; literature; humanism; education; discovery and invention. *Five hours a week, spring quarter.* Professor MacKinney.

71-72. AMERICAN HISTORY: GENERAL COURSE (10). Not credited towards a major.

A general survey of the history of the United States. Junior-senior elective. Both 21-22-23 and 71-72 may not be taken for credit by a student. *Five hours a week, winter and spring quarters.* Professor Lefler.

91. HISPANIC-AMERICAN COUNTRIES DURING THE NATIONAL PERIOD (5).

A general course concerned with the political, social, economic, and cultural history of these countries from independence to the present time. *Five hours a week, spring quarter.* Professor Pierson.

Courses for Graduates and Advanced Undergraduates

121. MEDIEVAL CIVILIZATION (5).

An intensive study of the classical cultural heritage and of the evolution of culture during the Middle Ages. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor MacKinney.

122. SOCIAL-ECONOMIC HISTORY OF THE MIDDLE AGES (5).

An intensive study of the social and economic life of the Middle Ages. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor MacKinney.

123. SPANISH CIVILIZATION (5).

The background and rise of medieval Spanish civilization; its climax in the age of Ferdinand, Isabella, Charles I, and Philip II; modern Spanish nationalism and radicalism. *Five hours a week, winter quarter.* Professor MacKinney.

131. THE PROTESTANT REVOLT (5).

Europe in the Sixteenth Century. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Garrett.

132. THE RISE OF ABSOLUTISM IN EUROPE (5).

Europe in the Seventeenth Century. *Five hours a week, winter quarter.* Professor Garrett.

133. THE FRENCH REVOLUTION AND THE NAPOLEONIC PERIOD (5).

An intensive study of the causes, events, and results of the French Revolution and the Napoleonic period. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Garrett.

134. RISE OF DEMOCRACY AND NATIONALISM IN MODERN EUROPE (5).

Europe from 1815 to 1870. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Garrett.

135. THE WORLD WAR AND ITS BACKGROUND (5).

Europe from 1870 to 1918. *Five hours a week, winter quarter.* Professor Garrett.

136. RECENT AND CONTEMPORARY EUROPEAN HISTORY (5).

The aftermath of the World War. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Garrett.

137. ENGLAND TO 1603 (5).

The development of English society based upon an intensive study of the sources and literature of selected topics. Emphasis will be upon intellectual history in 1939 and upon social and political history in 1940. *Five hours a week, spring quarter.* Professor Russell.

138. ENGLAND FROM 1603 TO 1760 (5).

The national development and expansion of the British state during the period covered. *Five hours a week, fall quarter.* Professor Wagstaff.

139. GREAT BRITAIN FROM 1760 TO THE WORLD WAR (5).

Evolution of the British state as shaped by modern forces. *Five hours a week, winter quarter.* Professor Wagstaff.

143. DIPLOMATIC HISTORY OF THE UNITED STATES, 1776-1937 (5).

A study of American foreign relations with emphasis upon the historical development of present foreign policies and the social and economic forces at home and abroad which led to their adoption. *Five hours a week, fall quarter.* Professor .....

145. STUDIES IN AMERICAN CULTURAL HISTORY, 1492-1860 (5).

The course will deal with cultural trends, the early development of significant American ideas and social attitudes, and the growth of national characteristics and the relation of these to the social and economic background in which they grow. Emphasis will be placed upon such things as migrations of people and ideas; contributions of foreign cultures, geographic environment, the frontier, religion, puritanism, humanitarianism, and women; the growth of nationalism; and the ideal of cultural independence. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Beale.

146. STUDIES IN AMERICAN CULTURAL HISTORY, 1860-1937 (5).

The course will deal with the historical background of contemporary American culture, ideas, social attitudes, and national characteristics, with emphasis upon the contributions of such groups as Negroes, foreigners, and women, migration of ideas, and the influence of industrialism, of science, of religion, and of the ideals of progress, individualism, and social responsibility. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Beale.

149. THE AMERICAN COLONIES, 1606-1689 (5).

A survey of European backgrounds; and a study of the founding and development of England's continental colonies and of their relations to each other and to the British Empire. *Five hours a week, fall quarter.* Professor Lefler.

150. THE AMERICAN COLONIES, 1689-1783 (5).

A study of the political, social, economic, and cultural history of the colonies from 1689 through the American Revolution. *Five hours a week, winter quarter.* Professor Lefler.

151. THE FEDERAL PERIOD, 1783-1815 (5).

A study of the Articles of Confederation, the formation and adoption of the Federal Constitution, the launching of the government, Jeffersonian democracy, and the Second War for American Independence. *Five hours a week, fall quarter.* Professor Newsome.

152. THE ANTE-BELLUM PERIOD, 1815-1860 (5).

A study of the westward movement, Jacksonian democracy, nationalism and expansion, state rights and sectionalism, controversy over negro slavery, and causes of the War for Southern Independence. *Five hours a week, spring quarter.* Professor Newsome.

154. CIVIL WAR AND RECONSTRUCTION (5).

The important constitutional, political, social, and economic aspects of the Civil War and Reconstruction in the United States. *Five hours a week, fall quarter.* Professor Beale.

155. RECENT HISTORY OF THE UNITED STATES, 1877-1901 (5).

A study of the transformation of America from a rural society "isolated" from world affairs into a highly industrialized world power, with emphasis on the economic, social, constitutional, ideological, and culture changes, which caused or grew out of this transition. *Five hours a week, winter quarter.* Professor Beale.

156. RECENT AMERICAN HISTORY, 1901-1937 (5).

The course deals with the political, constitutional, economic, social, and intellectual problems of the newly industrialized nation, and with the history of the foreign relations of the United States as a world power. *Five hours a week, spring quarter.* Professor Beale.

161. NORTH CAROLINA, 1584-1815 (5).

A survey of the political, social, economic, and cultural development of North Carolina from the first settlement until 1815. *Five hours a week, fall quarter.* Professor Lefler.

162. NORTH CAROLINA, 1815-1936 (5).

A survey of political, economic, social, and cultural developments in North Carolina since 1815. *Five hours a week, winter quarter.* Professor Newsome.

163. THE SOUTH, 1789-1860 (5).

A course dealing with the Southern States, with emphasis upon social, economic, and political organization and movements. *Five hours a week, fall quarter.* Professor Green.

164. THE SOUTH, 1877-1936 (5).

The course deals with the political, economic, social, and intellectual development of the South since the close of Reconstruction. *Five hours a week, winter quarter.* Professor Green.

165. HISTORY OF THE WEST TO 1815 (5).

A study of the westward movement and of frontier civilization in the area now comprising the United States from the time of exploration and settlement to 1815. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Newsome.

166. HISTORY OF THE WEST SINCE 1815 (5).

A study of the westward movement and of frontier civilization in the United States from 1815 to the opening of the twentieth century. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Newsome.

167. ECONOMIC HISTORY OF THE UNITED STATES, 1783-1860 (5).

A study of agriculture, transportation, commerce, manufacturing and similar aspects of American history, 1783-1860, and of the influence of economic factors upon social and political life. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Lefler.

168. ECONOMIC HISTORY OF THE UNITED STATES, 1860-1925 (5).

A particular effort will be made to show the effects upon American life of the great economic revolution which has occurred since the Civil War. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Lefler.

170. SOCIAL AND EDUCATIONAL HISTORY OF THE UNITED STATES (Education 143) (5).

A study of the evolution of social and educational institutions and practices in the United States. *Five hours a week, fall quarter.* Professor Knight (of the Department of Education).

DEPARTMENT OF JOURNALISM

Professors: O. J. COFFIN, C. P. RUSSELL.

Assistant Professor: WALTER SPEARMAN.

30. COLLEGE REPORTING (3 or 5).

A course with a maximum credit of five quarter-hours for reporting done on the student daily under the supervision of the Department of Journalism.

31. COLLEGE EDITING (3 or 5).

A similar credit course for those who do the editorial work of the student newspaper.

53. NEWS WRITING I (5).

A course in elementary news writing devoted to practical work in the classroom. Prerequisite for Journalism 54. *Five hours a week, fall quarter. Laboratory fee, $2.00.* Professors Coffin, Russell, Spearman.

54. NEWS WRITING II (5). Prerequisite, Journalism 53 or the equivalent.

A continuation of the work in Journalism 53, with the addition of some copy-reading. Prerequisite for Journalism 55. *Five hours a week, winter quarter. Laboratory fee, $2.00.* Professors Coffin, Russell, Spearman.

55. NEWS WRITING III (5). Prerequisite, Journalism 53 and 54.

A continuation of Journalism 54, with more emphasis on assignments. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professors Coffin, Russell, Spearman.

56ab. FEATURE WRITING (3 each quarter).

A course for advanced students in the production of feature stories and feature articles, with a view to making them marketable. Either half may be taken independently. *Three hours a week, winter and spring quarters.* Professors Coffin, Russell.

57. NEWS METHODS AND TREATMENTS (3).

A study of contemporary newspapers and of prevailing methods of handling news. Desk work. *Three hours a week, fall quarter. Laboratory fee, $2.00.* Professors Coffin, Spearman.

58. EDITORIAL WRITING (3).

Comparative examination of policies and relations. Editorial writing. *Three hours a week, spring quarter.* Professor Russell.

59. WEEKLY NEWSPAPER EDITING (3).

A study of the functions of the weekly newspaper, with practical instruction in meeting the problems of the neighborhood news medium. *Three hours a week, winter or spring quarter.* Professor Coffin.

60. BOOK REVIEWING AND DRAMATIC CRITICISM FOR NEWSPAPERS (3).

A course in book reviewing and covering plays and motion pictures from the newspaper point of view. *Three hours a week, winter quarter.* Professors Spearman, Russell.

61. HISTORY OF JOURNALISM (3).

A study of the chief forces and personalities that have contributed to the development of American newspapers, particularly in modern times; principles and ethics of journalism; law of the press. *Three hours a week, fall quarter.* Professor Russell.

DEPARTMENT OF LIBRARY SCIENCE

Professors: S. G. Akers, C. M. White.
Associate Professor: †Nora Beust.
Assistant Professor: Lucile Kelling.

Courses for Undergraduates

These courses may be taken by advanced undergraduates in the College of Arts and Sciences with the approval of the Director of the School of Library Science.

† Absent on leave, January 1, 1938-June 30, 1939.

111. REFERENCE AND BIBLIOGRAPHY (5).
Five hours a week, fall quarter. Professor Kelling.

121. PRINCIPLES OF BOOK SELECTION (5).
Five hours a week, fall quarter. Professor Beust.

122. BOOK SELECTION FOR HIGH SCHOOL LIBRARIES (5).
Five hours a week, winter quarter. Professor Beust.

123. BOOK SELECTION FOR CHILDREN'S LIBRARIES (5).
Five hours a week, spring quarter. Professor Beust.

151. HISTORY OF BOOKS AND LIBRARIES (5).
Five hours a week, spring quarter. Professor White.

*DEPARTMENT OF MATHEMATICS

Professors: ARCHIBALD HENDERSON, T. F. HICKERSON, J. W. LASLEY, JR., **A. W. HOBBS, E. T. BROWNE, E. L. MACKIE.
Associate Professors: A. S. WINSOR, J. B. LINKER, R. M. TRIMBLE, M. A. HILL, V. A. HOYLE.
Assistant Professors: L. L. GARNER, E. A. CAMERON, NATHAN JACOBSON.
Instructors: WHITFIELD COBB, ROBERT E. SMITH.
Teaching Fellows: C. L. SEEBECK, JR., ROBERT HOOKE.
Assistants: C. L. CARROLL, JR., R. C. BLACKWELL.

Courses for Undergraduates

†1-2-3. INTRODUCTORY MATHEMATICS (9).

A systematic development of the notion of functions. First the algebraic functions, including the linear function, the quadratic function, and functions of higher degree, an account of associated equations and geometric loci, the rate of change of a function, functions changing at a given rate. Then transcendental functions, including the logarithmic and exponential functions with their rates of change and associated problems. Finally the trigonometric functions and their application to the solution of triangles. *Three hours a week for the year.* Professors Henderson, Hickerson, Lasley, Hobbs, Browne, Mackie, Winsor, Linker, H. F. Munch, Trimble, Hill, Hoyle, Jacobson, Cameron; Messrs. Cobb, Seebeck, Carroll.

4-5-6 (1c-2c-3c). FIRST YEAR MATHEMATICS (9). Required of Freshmen who expect to enter the School of Commerce.

An elementary study of algebra and trigonometry, including algebraic and trigonometric functions, solutions of right triangles by nat-

* For the degree of A.B. with major in Mathematics there are required: I. Thirty (30) quarter hours consisting of
a) Mathematics 31, 32, 33 (or Mathematics 21, 22, 23, 36.)
b) Fifteen (15) quarter hours from Mathematics 41, 42, 51, 52, 103, 104, 105, 111, 121, 122, 123, 131**, 141**, 151**, 152**, 161**, 171**, at least five (5) quarter hours of which must be taken from courses marked "**" above.
II. Six 5- or 6-hour courses from Botany, Chemistry, Geology, Philosophy, Physics, Psychology, Zoology.
III. Six full courses outside of the Division of the Natural Sciences.
** Absent on leave, winter quarter, 1938-1939.
Those students who plan to teach in public schools should read the footnote at the bottom of page 127.
† Mathematics 1-2-3 or a year's work in Greek or Latin must be taken by each candidate for A.B.

ural functions, graphs, factoring, fractions, ratio, proportion, variation, and the binomial theorem, linear functions, quadratic functions, functions of higher degree, exponents, radicals, logarithms, and the solution of right triangles by logarithms, functions of multiple angles, and the solution of oblique triangles by means of the sine and cosine laws; progressions, interest and discount, annuities and their application to the extinction of interest bearing debts, depreciation, building and loan associations, evaluation and redemption of bonds, probability, mortality tables, life annuities, life insurance, and insurance reserves. *Three hours a week for the year.* Professors Henderson, Hickerson, Lasley, Hobbs, Browne, Mackie, Winsor, Linker, Trimble, Hill, Hoyle, Jacobson, Cameron; Messrs. Cobb, Seebeck, Hooke, Carroll, Blackwell.

21-22-23 (11-12-13). SECOND YEAR MATHEMATICS (9). Prerequisite, Mathematics 1-2-3 or equivalent.

The fundamentals of the analytic geometry of the straight line and the conic sections, transformation of coordinates, problems in loci. The differentiation process and its applications to geometry, physics, and mechanics, curvature of plane curves. The definite integral and its application to problems arising in geometry and the physical sciences, including length of arc, areas, volumes, moment of inertia, etc. Sophomore elective. *Three hours a week for the year.* Professors Winsor, Linker, Hoyle.

31-32-33 (23-24-25). SECOND YEAR MATHEMATICS: INTENSIVE COURSE (15). Prerequisite, Mathematics 1-2-3 or equivalent.

A course designed primarily for students intending to be in the Division of the Natural Sciences whose major will be mathematics and who therefore want a more intensive course in the principles and methods of analytic geometry and the calculus. The concepts of the straight line and the conic sections and certain special plane curves are considered with especial consideration of the problems of loci. The fundamental concepts of both the differential and the integral calculus are developed with application of a somewhat extended nature to situations in geometry, physics, and mechanics. These courses, though consecutive, may be taken separately in the order named for credit. Sophomore elective. *Five hours a week for the year.* Professors Henderson, Browne, Mackie, Hill.

36 (26E). SELECTED TOPICS IN ANALYTIC GEOMETRY AND CALCULUS (6). Prerequisite, Mathematics 21-22-23.

This course is designed to supplement the sequence Math. 21-22-23 and complete the requirement of fifteen hours. Such topics as solid analytic geometry, series, envelopes and partial differentiation in differential calculus, and double and triple integration in integral calculus are treated. *Six hours a week, fall quarter.* Professor Linker.

41. MECHANICAL DRAWING (3). For freshmen and others.

Use of instruments, lettering, line work, geometric constructions. Study of the principles of orthographic projection and isometric drawing; intersections and development of simple surfaces. Plate layout and title composition; dimensioning and sectioning. The student makes a series of accurate plates in pencil and in ink. *Lectures and laboratory, five hours a week, every quarter. Laboratory fee, $1.00.* Professor Trimble.

42. DESCRIPTIVE GEOMETRY (3). Prerequisite, Mathematics 41.

Fundamental problems of the point, line, and plane. Intersections of planes and curved surfaces. Elements of shades and shadows. Applications of principles of descriptive geometry to the graphical solution of practical problems. *Lectures and laboratory, five hours a week, winter quarter. Laboratory fee, $1.00.* Professor Trimble.

43. GRAPHICAL ANALYSIS (3). Prerequisite, Mathematics 41.

The construction of scalar and vector diagrams. Graphical representation of comparative or derived data. Fitting curves to plotted data and the design and composition of curve sheet and title. The use of nomographic charts in evaluating functions; stationary and sliding scales; networks of scales. *Lectures and laboratory, five hours a week, spring quarter. Laboratory fee, $1.00.* Professor Trimble.

51, 52. PLANE SURVEYING (5 each). Prerequisite, Mathematics 1, 2, 3, or equivalent. Mathematics 51 may be taken alone, but is prerequisite for Mathematics 52.

A general outline of methods of surveying; theory and use of compass, level, transit, plane table, and minor surveying instruments. Measurement and calculation of areas; stadia surveying; circular and parabolic curves. Topographic surveying; United States land surveys. Astronomical applications to the determination of meridian and latitude. Afternoon periods are devoted to plotting and calculation work and to field exercises. *Two lecture and six field hours a week;* Mathematics 51, *fall or winter quarter.* Mathematics 52, *winter or spring quarter. Fee, $4.00 each quarter.* Professor Trimble.

53. GEODESY (3). Prerequisite, Mathematics 51 or equivalent.

The figure and dimensions of the earth. Map projections with relation to the earth's shape considered as a sphere, spheroid, ellipsoid, geoid. The theory of base line measurement and triangulation. The adjustment of leveling and triangulation data by approximate methods and by least squares. Astronomy as applied to the determination of terrestrial positions and azimuths in a geodetic survey. Modern methods of determining longitude and geodetic positions. *Lectures, field work, and computing periods, five hours a week, fall or spring quarter. Fee, $4.00 each quarter.* Professor Trimble.

Courses for Graduates and Advanced Undergraduates

101. ADVANCED PLANE ANALYTIC GEOMETRY (3). Prerequisite, Mathematics 31-32-33.

This course is designed to present to the student who has taken Mathematics 31 an enlarged conception of analytic geometry of the plane, with many modern developments of the subject. Among the topics treated are the transformation of coordinates, the general equation of the second degree, a general study of loci, parametric representation of curves, polar coordinates, invariant properties of conics, intersections of curves, systems of curves, etc. *Three hours a week, fall quarter.* Professor Henderson.

105. HISTORY OF MATHEMATICS (5). Prerequisite, Mathematics 31-32-33 or 21-22-23 and 36.

A survey course in the history of the evolution of mathematics, including arithmetic, algebra, geometry, trigonometry, analytic geometry, and calculus, from the earliest times down to the present. The treatment is technical as well as historical, presenting the details of

mathematical development. The course is enriched with biographical studies of eminent mathematicians. *Five hours a week, winter quarter.* Professor Hill.

111. ELEMENTARY MATHEMATICAL STATISTICS (5). Prerequisite, Mathematics 33 or equivalent.

A course dealing with the elementary theory and applications of mathematical statistics, treating in detail the following topics: graphs, averages, dispersion, skewness, sampling, probable error, frequency curves and correlation. The course is designed to serve as a background for students dealing with statistical and observational data. *Five hours a week, spring quarter.* Professor Hill.

121. THEORETICAL AND APPLIED MECHANICS: STATICS (5).

The fundamentals of statics, including basic conceptions and definitions; resultants of force systems; equilibrium of force systems; friction; first moments and centroids; moments of inertia of areas and bodies. This course and its sequels, 122 and 123, are comparable to those offered at the accredited engineering schools of the country. *Five hours a week, fall quarter.* Professor Hickerson.

122. THEORETICAL AND APPLIED MECHANICS: KINEMATICS AND KINETICS (5).

Motion of a particle; translation, rotation and plane motion of rigid bodies; work and energy; impulse and momentum. *Five hours a week, winter quarter.* Professor Hickerson.

123. STRENGTH OF MATERIALS (6).

Stresses and strains in tension, compression, and shear; riveted and welded joints; torsion of shafts; shear, moment, and stresses in beams; deflection of beams by double-integration and moment-area methods; fixed, restrained, and continuous beams; composite beams; resilience; combined stresses; columns; energy loads. Parallel laboratory tests on specimens of steel, wrought iron, cast iron, concrete, and wood. *Five lecture and two laboratory hours a week, spring quarter. Laboratory fee, $4.00.* Professor Hickerson; Assistant.

131. THEORY OF EQUATIONS (5). Prerequisite, Mathematics 33.

Indispensable for students intending to prosecute studies in the higher branches of pure mathematics. Such subjects as the solution of equations of higher degree, transformations, determinants, elimination, invariants and covariants, and symmetric functions are treated in detail. The student is afforded a survey of the general problem and the basic principles of the formation, handling, and evolution of equations. *Five hours a week, winter quarter.* Professor Henderson.

141. DIFFERENTIAL EQUATIONS (5). Prerequisite, Mathematics 32 and 33.

This is a course both for students intending to specialize in mathematics and for students in advanced engineering, civil, electrical, and chemical. Among the subjects treated are singular solutions, applications to mechanics, geometry, and physics, linear equations with both constant and variable coefficients, equations involving more than two variables, partial differential equations, and spatial forms. *Five hours a week, fall quarter.* Professor Linker.

151. PROJECTIVE HOMOGENEOUS COORDINATES AND THEIR APPLICATIONS (5). Prerequisite, Mathematics 33.

A study of the general homogeneous coordinates of forms of one, two, three, and four dimensions; cross ratio and its properties; ideal elements; duality; projective correspondence; transformation of coordinates; the elements of line geometry. *Five hours a week, fall quarter.* Professor Lasley.

152. ANALYTIC PROJECTIVE GEOMETRY (5). Prerequisite, Mathematics 151.

The projective theory of binary forms; the conic as a rational curve; the conic as a ternary form; the conic from the viewpoint of the theory of correlations; functional determinants and invariants; selected topics from higher geometry. *Five hours a week, winter quarter.* Professor Lasley.

161. ANALYTIC GEOMETRY OF SPACE (5). Prerequisite, Mathematics 33.

Spatial relations are treated from the analytical standpoint. Deals with quadric surfaces, envelopes, foci, quadriplanar and tetrahedral coordinates, developable surfaces, curves in space, curvature of surfaces, higher surfaces, etc. *Five hours a week, spring quarter.* Professor Henderson.

171. ADVANCED CALCULUS (5). Prerequisite, Mathematics 33.

This course completes and rounds out the subject as given in Mathematics 33. Stress upon rigor in demonstration. Designed to meet the particular needs of the class, e.g., problem course on study of special functions. Thorough knowledge of colculus is the aim of the course. *Five hours a week, spring quarter.* Professor Mackie.

MEDICAL SCIENCES

The School of Medicine offers the following courses for academic undergraduates:

BACTERIOLOGY

51. ELEMENTARY BACTERIOLOGY (6). Prerequisite, General Chemistry and one course in Botany or Zoology. *Elective.

A lecture and laboratory course offered as a general science course. The fundamental principles of bacteriology are emphasized, and the student is trained in general bacteriological technique. The morphological and biological characteristics of the molds, yeasts, and saprophytic bacteria are studied. Pure cultures are isolated from air and water, and identification attempted. The applications of bacteriology to agriculture, industry, and the home are considered. (Registration of a minimum of six students required). *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $4.00.* Professor MacPherson; Mr. Rolnick.

101. PATHOGENIC BACTERIOLOGY (10). Required of medical students. Prerequisite for academic students, General Chemistry, Chemistry 31, and Bacteriology 51, or equivalent. *Elective.

The early weeks of the course are devoted to a thorough grounding in the fundamental principles of bacteriology. Each student prepares the various culture media in common use; cultivates and describes

* Before registering for this course the academic student must secure the permission of his Dean.

several non-pathogens from stock cultures; and practices the more useful staining methods. Pure cultures are isolated from air and water and their biology studied. The major portion of the course is devoted to the detailed study of the pathogens. Unknown mixtures are used to test the student's ability to differentiate organisms of the various groups. Practical applications of bacteriology in the diagnosis of disease are stressed by the examinations of sputa, pus, feces, and blood. Animal inoculations are made to demonstrate the process of infection and the differentiation of certain organisms. Lectures cover all the more important diseases. *Three lecture and nine laboratory hours a week, fall quarter. Laboratory fee for non-medical students, $6.00.* Professor MacPherson; Mr. Rolnick. See Catalogue of the Graduate School.

104. INFECTION, IMMUNITY, AND SERUM DIAGNOSIS (6). Required of medical students. Prerequisite, Bacteriology 101 or its equivalent. *Elective.

The early laboratory work is designed to demonstrate the basic principles of immunology and serology. Practical training is given in the production and use of agglutinins, precipitins, lysins, and complement fixing antibodies. Vaccines are prepared, and their use demonstrated. The preparation and standardization of antimicrobic and antitoxic sera are studied. Anaphylaxis and allergy are produced in animals, and methods of diagnosis and desensitization practised. The student is required to prepare his own materials and to inject and bleed animals himself. Special attention is given to the use of these principles in the diagnosis of blood stains, blood grouping, typhoid fever, typhus fever, diphtheria, tuberculosis, hay fever, gonorrhea, and syphilis. Unknown specimens test the student's ability to use the reactions. Lectures consider the principles of infection, immunity, and resistance. *Three lecture and six laboratory hours a week, winter quarter. Laboratory fee for non-medical students, $10.00.* Professor MacPherson; Mr. Schaaf. See Catalogue of the Graduate School.

110. PUBLIC HEALTH LABORATORY METHODS (5). Prerequisite, Bacteriology 101 or its equivalent. *Elective.

A course of training in the modern bacteriological methods employed in the routine work of a public health laboratory. Practice is afforded in the laboratory diagnosis of diphtheria, tuberculosis, typhoid fever, pneumonia, malaria, gonorrhea, syphilis, and rabies. The bacteriological examination of water, milk, and canned goods is also practised. The course is designed for medical students and those wishing to qualify as bacteriological laboratory technicians. *Two lecture and six laboratory hours a week, spring quarter. Laboratory fee for non-medical students, $6.00.* Professor MacPherson.

BIOLOGICAL CHEMISTRY

41. FOODS (3).

An elementary course dealing with the principles of food selection and food values. Elementary chemistry is a desirable but not an indispensable prerequisite. The practical and economic value of various classes of food products from the standpoint of protein, fat, carbohydrate, mineral, and vitamin content is emphasized. *Three hours a week, winter quarter.* Professor Andrews.

---

* Before registering for this course the academic student must secure the permission of his Dean.

101. FOOD CHEMISTRY (6). Prerequisite, Chemistry 42 and 61.

A course covering the principles of the chemistry of food and nutrition from a purely chemical viewpoint. The laboratory work consists chiefly of quantitative methods of food analysis. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professors Andrews, Kyker.

PHYSIOLOGY

3a. NATURAL SCIENCE: ELEMENTS OF HUMAN PHYSIOLOGY (4). Freshman Elective. Prerequisite, Natural Science 1 and 2.

A consideration of the functions of the various parts of the body and their relation and importance in maintaining the normal condition of the organism. The systems are discussed separately, and collectively, in so far as each depends upon the others for proper regulation. Stress is applied to both normal and abnormal conditions in man. *Three lecture and two demonstration hours a week, spring quarter. Laboratory fee, $2.00.* Professor Ferrill; Assistants.

51. GENERAL COURSE IN PHYSIOLOGY (5). Prerequisite, general courses in zoology and chemistry.

Study of circulation, respiration, digestion, metabolism, nutrition, the nervous system, reproduction, excretions, and the endocrine glands. These systems are discussed in lectures and the material supplemented by the laboratory work. The student uses frogs and turtles in the laboratory and assists the instructor with demonstrations on dogs, cats, and rabbits. In this way the student is made acquainted with the actual functions of the body and how each part or system is related and affected by every other system. *Three lecture and four laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Professor Ferrill.

141. PHYSIOLOGY OF MUSCLE, NERVE, AND CIRCULATION (5). Prerequisite, consult the instructors.

Study of the physiology of muscle, nerve, and circulation. Attention is called to pathological conditions which are commonly associated with disturbed functions of these systems, and these tend to emphasize the importance of the normal function. Required of all medical students and open to any others who have had the necessary prerequisite work. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee for non-medical students, $5.00.* Professors, Manning, Ferrill. See Graduate Catalogue.

142. GENERAL COURSE IN PHYSIOLOGY (12). Prerequisite, consult the instructors.

Study of respiration, digestion, metabolism, excretions, the central nervous system, special senses and endocrine glands. Required of all medical students and open to any other students who have had the necessary prerequisite work. *Six lecture and twelve laboratory hours a week, spring quarter. Laboratory fee for non-medical students, $10.00.* Professors Manning, Ferrill. See Graduate Catalogue.

*DEPARTMENT OF MUSIC

Professor: Glen Haydon.
Associate Professors: B. F. Swalin, E. A. Slocum.
Assistant Professors: J. P. Schinhan, J. E. Toms.
Assistants: Dale Sandifur, William Klenz, Harold Cone.

Courses for Undergraduates

1-2-3. NOTATION, SIGHT-SEEING, AND DICTATION (6).

A course in the rudiments of musical symbols with practice in reading and writing scales, intervals, melodies, and elementary harmonic materials. No prerequisite work nor previous training is necessary for Music 1, but previous experience will obviously be of great value to the student. *Four laboratory hours a week, fall, winter, and spring quarters.* Professor Toms.

14-15-16. HARMONY (9). Prerequisite or corequisite, Music 1-2-3. *Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

21-22-23. NOTATION, SIGHT-SINGING, AND DICTATION (3). Prerequisite, Music 1-2-3. Sophomore requirement. See 24-25-26.

Continuation of Music 1-2-3. *Two laboratory hours a week, fall, winter, and spring quarters.* Professor Toms.

24, 25, 26. THE HISTORY OF MUSIC (9). Sophomore requirement for those who will have music as a major.

This survey course in the history of music is divided into the following three parts, any one of which may be taken separately: (1) the period from antiquity to the end of the sixteenth century; (2) the seventeenth and eighteenth centuries; (3) Romantic and Modern Music. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

44-45-46. ADVANCED HARMONY (9). Prerequisite, Music 14-15-16; prerequisite or corequisite, Music 21-22-23. Sophomore requirement for those who will have music as a major.

Three hours a week, fall, winter, and spring quarters. Professor Schinhan.

*54. INSTRUMENTAL MUSIC OF THE CLASSICAL PERIOD (5).

Open to juniors, seniors, and *graduates, without prerequisite. No knowledge of music is necessary. Will not be accepted as part of a major. Lectures, illustrations, performances, and phonographic recordings. *Five hours a week, winter quarter.* Professor Swalin.

---

* The courses in Music are designed to perform a three-fold function in the University: (a) to give the student electing music as his chief interest a thorough training in the practical, theoretical, and historical aspects of the subject as a part of the general liberal arts curriculum for the A.B. degree; (b) to give the student interested in the scholarly aspects of the subject the basic training necessary for successful graduate work; (c) to afford students in other departments the opportunity to take music as an elective for its cultural value in the liberal arts program.

Course leading to the A.B. degree with Music as the Major. Students who take music as the major must modify the regular program for the first two years in order to begin music their first year. They will take English 1-2-3, a foreign language, Music 1-2-3 and 14-15-16, and mathematics or Latin or Greek, or the regular freshman course in social science, or the regular freshman course in natural science. Courses in the regular freshman program postponed to make way for the music must be taken at some later time. Similar arrangements must be made in the sophomore year to provide for Music 21-22-23, 24-25-26, and 44-45-46.

The undergraduate major in Music consists of from thirty to forty quarter hours beyond the freshman-sophomore requirements and must include Music 61-62-63, 74-75-76, and 101-102-103 or 124-125-126. Attention is called to the special requirements in applied Music. See page 169.

* Music 54, 55, 56 carry no graduate credit.

*55. INSTRUMENTAL MUSIC OF THE ROMANTIC AND MODERN PERIODS (5).

Similar to course 54. Open to juniors, seniors, and *graduates, without prerequisite. No knowledge of music is necessary. Will not be accepted as part of the major. *Five hours a week, fall quarter.* Professor Swalin.

*56. A SURVEY OF VOCAL MUSIC (5).

Similar to Music 54. This course will be devoted to the study of such vocal music as the Gregorian Chant, madrigal, motet, masso, art song, opera, and oratorio. Open to juniors, seniors, and *graduates, without prerequisite. No knowledge of music is necessary. Will not be accepted as part of the major. *Five hours a week, spring quarter.* Professor Swalin.

61-62-63. MODAL COUNTERPOINT IN THE 16TH CENTURY STYLE (9). Prerequisite, Music 14-15-16.

Study and practice of the contrapuntal techniuqe of the 16th century; the writing of simple motets. *Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

71-72-73. INSTRUMENTATION, ORCHESTRATION, AND ELEMENTARY CONDUCTING (9).

A course in the study of the principles and practice of instrumentation for orchestra and band, elementary score reading, and conducting. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

74-75-76. ANALYSIS AND COMPOSITION IN THE SMALLER FORMS (9).

Three hours a week, fall, winter, and spring quarters. Professor Slocum.

Courses for Graduates and Advanced Undergraduates

101-102-103. INTRODUCTION TO MUSICOLOGY (9). Prerequisite, a reading knowledge of one or more of the important foreign languages, a fair knowledge of musical theory, and some skill in practical applied music.

A study of the problems and methods in the various fields, historical and systematic, of musical research. *Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

**121, 122, 123. STUDIES IN THE HISTORY OF MUSIC (9). Prerequisite, Music 24, 25, 26, and 44-45-46.

A critical study of certain composers or periods of musical development, such as Johann Sebastian Bach, Richard Wagner, or The Music of the Sixteenth Century. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

**124, 125, 126. MODERN MUSIC (9). Prerequisite, Music 24, 25, 26, and 44-45-46.

The three divisions of this course relate to Neo-Romanticism, Musical Impressionism, and Musical Expressionism respectively. A critical analysis of selected works by representative modern composers will be essayed, and an effort made to correlate these studies with other

* Music 54, 55, 56 carry no graduate credit.
** Music 121, 122, 123 or 124, 125, 126 will be given as the demand warrants.

phases of art and culture. Students may be admitted to the course at the beginning of each quarter, with the permission of the instructor. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

161-162-163. FREE COUNTERPOINT, CANON AND FUGUE (9). Prerequisite, Music 61-62-63.

A study of contrapuntal procedure with particular reference to the style of Bach. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

†174-175-176. ANALYSIS AND COMPOSITION IN THE LARGER FORMS (9). Prerequisite, Music 74-75-76.

Three hours a week, fall, winter, and spring quarters. Professor Schinhan.

APPLIED MUSIC

The following courses in applied music are open to students in any department of the University having the necessary technical equipment. The work in applied music is regarded not merely as technical training in performance, but also as a study of the standard literature for the particular instrument or ensemble group. Credit in general will be given on the basis of one quarter hour credit a year in the first and second years; two quarter hours credit a year in the third and fourth years. Credit in the Teacher Training Program will be given on the basis of 1½ quarter hours for twelve full half-hour lessons with six or more hours of practice for each lesson. For those whose major is not music a total credit not to exceed ten quarter hours may be counted as electives in the A.B. curriculum. Those whose major is music must offer at least ten quarter hours in applied music and may offer a total not to exceed twenty-five quarter hours in this field, of which not more than ten may be in ensemble courses. All students with majors in music, unless given special permission by the Head of the Department, must continue individual instruction in applied music throughout the four years. Students planning to teach instrumental music in the public schools will arrange their schedule for the study of the wind and stringed instruments in consultation with the Department.

The general prerequisite for entrance into the first year courses is ability to perform music of difficulty rated as grade three for the particular instrument. Copies of the course of study for each instrument will be sent upon request. Students who do not have this prerequisite will repeat the preparatory course without credit until they qualify for the freshman course. The candidate for the A.B. degree with a major in music must complete as a minimum the freshman course in his chosen field of applied music. Students electing some other instrument than piano for their work in applied music must demonstrate sufficient pianistic ability to enable them to meet the practical requirements of the course to be pursued. This is interpreted to mean the ability to play at sight hymns or compositions of similar difficulty.

Students seeking the A.B. degree with a major in Music will be required to participate in the musical organizations of the Department, and those in the advanced applied music courses must take part in recitals as prescribed by the Department.

† Music 174-175-176 or 204-205-206 will be given as the demand warrants.

Fees

Fees for individual instruction are: $18.00 a quarter for one lesson a week; $36.00 a quarter for two lessons a week. The fees for class instruction vary from $3.50 to $10.00 a quarter according to the number of lessons a week. Practice rooms and periods are assigned at the Music Department Office. Fee for one hour daily practice period (room with piano), $3.00 a quarter; fee for two hours daily practice, $5.00 a quarter. Other fees in proportion. Fee for six hours practice a week on Reuter four manual organ, $15.00 a quarter. All fees for applied music and practice must be paid at the office of the Department of Music.

Individual Instruction

A. PREPARATORY ORGAN (no credit).

The aim of this course is to give the student the preliminary training on a keyboard instrument required for entrance into the course 1A. *One or two half-hour lessons and six or twelve hours practice a week, every quarter.* Professor Schinhan.

1A-2A-3A. FIRST YEAR ORGAN (1 or 2). Prerequisite, ability to play music for a keyboard instrument of the difficulty of Heller, Op. 45, 46, 47; Bach Two-Part Inventions; scales and arpeggios in moderate tempo; simple hymns (at sight). Value, 1 or 2 quarter hours respectively for one or two lessons and six or twelve hours of practice a week throughout the year. Professor Schinhan.

21A-22A-23A. SECOND YEAR ORGAN (1 or 2). Prerequisite, Music 1A-2A-3A. Value, hours, and fee as in 1A-2A-3A. Professor Schinhan.

51A-52A-53A. THIRD YEAR ORGAN (2 or 4). Prerequisite, Music 21A-22A-23A. Value, 2 or 4 quarter hours respectively for one or two lessons and six or twelve hours practice a week throughout the year. Professor Schinhan.

81A-82A-83A. FOURTH YEAR ORGAN (2 or 4). Prerequisite, Music 51A-52A-53A. Value, hours, and fee as in third year organ. Professor Schinhan.

Similar numbering and description with regard to value, hours, fees, and prerequisite work apply to each of the courses B, C, D, and E.

B. PIANO. Professor Schinhan; Messrs. Sandifur, Cone.

C. VOICE. Professor Toms.

D. VIOLIN. Professor Swalin.

E. FLUTE or other band or orchestral instrument. Professor Slocum, Mr. Klenz.

Class Instruction

For students desiring to complete the general piano requirements, for those in the general instrumental course, and for those wishing special training in voice, class instruction will be offered as far as practicable. Applications for admission to any of these classes should be made at the office of the Department of Music as soon after registration as possible. Hours to be arranged.

Ensemble Groups

1F-2F-3F. FIRST YEAR BAND (1 for year). Prerequisite, approval of instructor based upon a "try-out" given at the beginning of each quarter.

A minimum of two hours a week throughout the year. Professor Slocum.

21F-22F-23F. SECOND YEAR BAND (1 for year).

Hours and value as in preceding course. Professor Slocum.

51F-52F-53F. THIRD YEAR BAND (2 a year).

A minimum of two hours a week throughout the year. Professor Slocum.

81F-82F-83F. FOURTH YEAR BAND (2 a year).

Hours and value as in the preceding course. Professor Slocum.

Similar numbering, prerequisite work, value, and hours apply to each of the following courses in applied music:

1G. ORCHESTRA. Professor Swalin.

1H. GLEE CLUB. Professor Toms.

1I. PIANO ENSEMBLE, OR OTHER INSTRUMENTAL ENSEMBLE. Professors Slocum, Swalin; Mr. Sandifur.

DEPARTMENT OF PHILOSOPHY

Kenan Professor Emeritus: H. H. Williams.
Professors: F. F. Bradshaw, G. F. Thomas.
Visiting Professor: Helmut Kuhn.
Associate Professor: S. A. Emery.
Instructor: L. O. Katsoff.

Any student planning a Philosophy major should take Philosophy 21-22-23 or 41 in the General College. Over and above the full requirements of the General College he must complete during his junior and senior years at least eighteen whole courses, six of them in Philosophy, including 56, 58, and such more specialized courses as he needs to gain a thorough knowledge of one philosopher or philosophical school. In addition, since philosophy is a member of each of the Divisions, three alternative requirements follow:

For a major in the Division of the Humanities four to eight whole courses (not more than four in one department; distributed between at least two departments) outside of philosophy in the Division of the Humanities, four to seven whole courses outside the Division.

For a major in the Division of the Social Sciences Philosophy 91, one course from the group, Philosophy 86, 171, 172, 173, five to seven whole courses outside the Division.

For a major in the Division of the Natural Sciences Philosophy 71, six whole courses outside of philosophy in the Division of the Natural Sciences, six whole courses outside the Division.

The student and his Departmental adviser in consultation will make all the selections indicated above.

Courses for Undergraduates

21-22-23. INTRODUCTORY PHILOSOPHY: LOGIC, METAPHYSICS, ETHICS (9). Sophomore elective.

A course designed to acquaint the beginner with the general nature of all thinking and the philosophic principles underlying current views of nature, man, and personal conduct. *Three hours a week throughout the year.* May be entered any quarter and taken in any sequence. Logic: a study of the forms of valid inference with attention both to principles and to concrete applications in science and social life. *Fall quarter,* Professor Emery and Dr. Kattsoff. Metaphysics: views of the basic character of the human person, his status in nature, and his ultimate significance in the universe. *Winter quarter,* Professor Emery and Dr. Kattsoff. Ethics: evaluation of attitudes, such as the Stoic and Epicurean, expressed in present personal conduct. *Spring quarter,* Professors Bradshaw and Kuhn.

41. FIELDS OF PHILOSOPHY (5).

A survey of the chief fields and problems of philosophy to prepare for later courses, and for the independent reading of those who may be unable to continue in the Department. Much of the material of Philosophy 21-22-23 is covered. No student may secure credit for both. *Five hours a week, fall quarter.* Professor Emery.

56. THE DEVELOPMENT OF ANCIENT PHILOSOPHY (5).

The growth of philosophic thought from the dawn of Greek philosophy to the beginning of the Christian Era. Special attention will be paid to Plato and Aristotle. *Five hours a week, fall quarter.* Professor Thomas.

57. THE DEVELOPMENT OF CHRISTIAN PHILOSOPHY (5).

Designed to serve as an introduction to medieval philosophy or as a background for philosophy of religion. The origin of Christian beliefs about God, Creation, and Man in the Old and New Testaments: the dogmatic interpretation of these beliefs by Greek and Roman thinkers such as Athanasius and Augustine; the development of medieval Christian philosophy in Anselm, Aquinas, and Duns Scotus. The significance of Luther and Calvin and the modern conflict between faith and reason in Pascal will be briefly analyzed. *Five hours a week, winter quarter.* Professor Thomas.

58. THE DEVELOPMENT OF MODERN PHILOSOPHY (5).

The growth of philosophic thought from the end of the Middle Ages through the nineteenth century. Chief emphasis on the seventeenth and eighteenth centuries (British empiricism, Continental rationalism, Kant); brief reference to the Renaissance and the nineteenth century. *Five hours a week, spring quarter.* Professor Emery.

63. CONTEMPORARY PHILOSOPHY (5).

A study of the most significant philosophic tendencies of the present and recent past as outgrowths of important movements in the history of philosophy. Selections from such men as Bergson, Croce, Dewey, Santayana, and Whitehead. *Five hours a week, winter quarter.* Professor Emery.

66. INTRODUCTION TO METHODS OF THOUGHT (5).

The forms of valid inference, deductive and inductive. Immediate, syllogistic, and scientific inference with special attention to applica-

tions. Methods of reasoning in science, history, law, and ethics. Recommended for all students desiring some training in logical methods. *Five hours a week, spring quarter.* Dr. Kattsoff.

71. PHILOSOPHY OF SCIENCE (5).

Reason and nature. Scientific method. The concepts of physics, biology, and psychology. The implications of contemporary science for the nature of reality, religion, and man. Lectures, directed readings, and discussions. *Five hours a week, spring quarter.* Dr. Kattsoff.

76, 77. AESTHETIC VALUES (5 each).

A study of art and beauty from a philosophical point of view. Starting with an analysis of single aesthetic experiences and single works of art, the course is intended to lead up to the ultimate principles of aesthetics. First quarter: analysis of architecture, painting, sculpture, music, and poetry as distinct media of artistic expression. Theories concerning these arts will be discussed. Second quarter: theory of the aesthetic object and the aesthetic experience. Survey of the history of aesthetics, with special emphasis on Kant, Hegel, Croce, Alexander, and Collingwood. *Five hours a week, fall and winter quarters.* Professor Kuhn.

81. PHILOSOPHICAL IDEAS IN MODERN LITERATURE (5).

A course designed to trace those trends of philosophical thought which since the beginning of the nineteenth century have developed outside the academic tradition. The main topics: idealism and aestheticism (Emerson and the American Transcendentalists, Carlyle, Ruskin, William Morris, Flaubert, Walter Pater, Walt Whitman); criticism of culture (Marx, Kierkegaard, Tolstoy, Nietzsche, Ibsen); recent tendencies (Psycho-analysis, Neo-Humanism, Totalitarianism). The bearing of these theories on the understanding of the present situation will receive special attention. *Five hours a week, spring quarter.* Professor Kuhn.

86. MORAL VALUES (5).

An approach to the problem of conduct through an analysis of values. The definition, classification, and ranking of values will be studied. Greek, Christian, and modern conceptions of good, virtue, and duty will be compared. *Five hours a week, fall quarter.* Professor Thomas.

91. PHILOSOPHY OF THE STATE (5).

An analysis of classical political theories, such as those of Aristotle, Aquinas, Machiavelli, Rousseau, Burke, and Lenin. Special attention will be paid to the contributions of Greek and Medieval thinkers and to the fundamental issues of contemporary Liberalism, Conservatism, and Totalitarianism. *Five hours a week, winter quarter.* Professor Thomas.

Courses for Graduates and Advanced Undergraduates

121. KANT (5). Prerequisite, Philosophy 58 or special permission.

A study of Kant's Critical Philosophy as rooted in eighteenth century empiricism and rationalism and as initiating German idealism. Lectures, readings, and discussion. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Emery.

122. PLATO AND ARISTOTLE (5). Prerequisite, Philosophy 56 or special permission.

This course is designed for those who desire to make a more careful study of Plato and Aristotle than is possible in Philosophy 56. Some of the later dialogues of Plato will be read and selections from Aristotle's treatises on nature, the soul, and ethics will be analyzed. The nature of Plato's influence upon Plotinus and of Aristotle's influence upon Aquinas will be indicated. *Five hours a week, winter quarter.* Professor Kuhn.

123. CONTINENTAL RATIONALISM (5). Prerequisite, Philosophy 58 or special permission.

The breakdown of the authoritarianism of the Middle Ages. The increase of travel and the development of science, destroying the old criteria of morals and truth and producing such men as Montaigne and Bruno. Descartes' search for a new criterion in reason. The development of rationalism through Leibniz and Spinoza, and its influence on literature, religion, and political thought. Rationalism as a method will be evaluated on the basis of these studies. Readings in Descartes, Spinoza, and Leibniz; papers and discussions. *Five hours a week, winter quarter.* Dr. Kattsoff.

124. PHILOSOPHY OF THE NINETEENTH CENTURY (5). Prerequisite, Philosophy 58 or special permission.

German idealism (Fichte, Schelling, Hegel), materialism (Marx), and voluntarism (Schopenhauer, Hartmann, Nietzsche); French positivism (Saint-Simon, Comte) and its opponents; English empiricism (Mill, Spencer) and its idealistic critics (Green, Bradley). The mutual influences of these movements as forming the texture of European thought in the last century and leading to recent American philosophy. Lectures, readings, and discussions. *Five hours a week, fall quarter.* Professor Kuhn.

131, 132, 133. LOGIC AND CIVILIZATION (5 each).

A study of the universal principles in the development of civilization. An attempt, based on Hegel's philosophy, to understand the currents of thought and action directing our modern world and to lay the foundations for a philosophical approach to problems. First quarter: the development of mind from naive sensory awareness to the philosophical point of view, with illustrations in history, science, religion, politics, and social theory. Second quarter: the study and application of the fundamental categories expressed in the individual and the world about him. Third quarter: the application of the categories to the philosophy of mind, art, and religion. May be entered any quarter. Special permission is necessary for credit if only one quarter is taken. *Five hours a week, throughout the year. Fall and winter quarters,* Dr. Kattsoff; *spring quarter,* Professor Emery.

134. INTRODUCTION TO SYMBOLIC LOGIC (5).

The new symbolic approach to the logic of classes, propositions, propositional functions, and the nature of implication. Applications of this technique in the natural and social sciences. Hours to be arranged with instructor. *Five hours a week, spring quarter.* Dr. Kattsoff.

141. THE PHILOSOPHY OF MATHEMATICS (5).

Analysis of the fundamental concepts of mathematics. Its logical development; recent controversies on its foundations. *Five hours a week, fall quarter.* Dr. Kattsoff.

171, 172, 173. ETHICS AND CIVILIZATION (5 each).

A survey of ethics, historical and contemporary. The first quarter is concerned with the beginnings of ethical standards in the historical religions of the world and the subsequent development of ethical theory. The second quarter traces the contributions to the theory of values made by the scientific developments of the last two centuries. The third quarter is devoted to contemporary ethical problems, economic, political, and personal; and the logical foundation of ethical theory. Lectures, discussion, and directed readings. Special permission of the instructor is necessary for credit if only one quarter is taken. *Five hours a week, throughout the year.* Professor Bradshaw.

*DEPARTMENT OF PHYSICAL EDUCATION AND ATHLETICS

Director: R. A. Fetzer.
Professor: O. K. Cornwell.
Associate Professors: R. B. Lawson, W. F. Lange.
Assistant Professors: F. T. Siewert, Herman Schnell, R. E. Jamerson.
Instructor: M. Z. Ronman.

TECHNICAL ASSISTANTS IN SPORTS

R. A. Fetzer, M. D. Ranson, J. Morriss, Track and Field Sports.
R. B. Wolf, W. F. Lange, John Vaught, Football.
W. D. Skidmore, G. E. Shepard, Basketball
Bunn Hearn, Baseball.
M. Z. Ronman, Boxing.
P. H. Quinlan, Wrestling and Conditioning.
J. F. Kenfield, Tennis.
C. P. Erickson, Golf.
Floyd Siewert, Herman Schnell, Intramural Athletics, and Games of Low Organization.

The purpose of the work can be stated as follows: (1) To furnish to each student all the information about himself possible from a careful physical examination. (2) To teach him the elements of personal hygiene and public health. (3) To give special attention by way of corrective exercises to all students with physical handicaps. (4) To teach outdoor sports and leisure time recreations to all students in line with their capacities and interests. (5) To provide the necessary training for teachers in the field of health and physical education and thus help to meet the need in North Carolina for knowledge about individual and public health and to promote widespread participation in wholesome recreation.

* The work is under the joint control of the Department of Education and the Athletic Council; for the Department of Education, Dr. H. R. Douglass, for the Athletic Council, Director R. A. Fetzer are in charge.

PHYSICAL EDUCATION

HYGIENE 1-2-3. PERSONAL HYGIENE (3). Required of freshmen.

This course is designed to acquaint the student with the fundamental facts of personal hygiene so that he may keep his body at its highest efficiency. It is intended also to show the student how the individual and the community are protected against communicable diseases and to give him knowledge by means of which he may help in promoting health and social betterment. *One hour a week, fall, winter and spring quarters.* Professors Cornwell, Lange, Siewert, Schnell; Messrs. Ronman, Morriss, Shepard, Vaught.

1-2-3. PHYSICAL EDUCATION (3). Required of freshmen.

This course is designed to develop the fundamental physical skills and is adapted on the basis of thorough physical examination to the capacities and needs of individual students. Games of low and high organization, seasonal sports, and individual corrective or remedial work are used in the course. *Two hours a week, fall, winter, and spring quarters.* Professors Lawson, Siewert, Schnell; Messrs. Vaught, Ronman, Ranson, Fletcher, Morriss, Allen, Robinson, Dunham.

51. PRINCIPLES OF PHYSICAL EDUCATION (5).

A study is made in this course of the bases for physical education in the present organization of society; the relations of physical education to general education practice; standards for judging practice in physical education; and the psychological, sociological, and hygienic guides to be used in the selection of materials and methods. *Five hours a week, fall quarter.* Professor Cornwell.

51a. Laboratory work of six hours weekly is required in the coaching of track and field events. This course will present the coaching of standard track and field events for men. In addition to techniques and procedures for development of individual performers, attention is given to placement of men in a team for effective results, and to other aspects of team play and cooperation. Messrs. Fetzer, Ranson; Assistants.

52. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (5).

This course deals with problems and procedures in physical education, including classification of students, organization of program, class schedules, teaching load, equipment, records, administration of a gymnasium, and other pertinent materials. *Five hours a week, winter quarter.* Professor Cornwell.

52a. Laboratory work of six hours weekly is required in the coaching of football. This will deal with the game from the point of view of the coach, presenting fundamental training, plays, signals, offensive and defensive plans, tackling, blocking, interference, punting, drop kicking, and place kicking. Strategy in play, the technique of formations, the value and defects in various shifts, and other essentials of play will be presented. Mr. Wolf; Assistants.

52b. Laboratory work for women includes the coaching of basketball, the teaching of tumbling and stunts, and marching tactics.

53. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION (5).

This course is designed to acquaint students with various tests and measurements in the fields of health and physical education. Special

attention is given to test construction, scoring, and methods of using results. Various tests now in use will be evaluated. *Five hours a week, spring quarter.* Professor Cornwell.

53a. Laboratory work for six hours weekly is required in the coaching of basketball. This course will present fundamentals of coaching in terms of shooting, passing, dribbling, footwork, and guarding. In addition, form and technique for individual positions, selecting and placing of men, offensive and defensive formations, and various styles of team play will be covered. Messrs. Shepard, Skidmore; Assistants.

61. HEALTH EDUCATION I (5).

This course presents personal and general hygiene as a means for the improvement of living. A study of the problems of living as they involve the health of the adult. Problems of the adjustment of the individual to general conditions of rural and urban life. Various aspects of public school health teaching receive consideration. *Five hours a week, fall quarter.* Professor Cornwell.

61a. Laboratory work of six hours weekly is required in the coaching of baseball. This course will be devoted to defensive styles of play for different situations in the game, team play, individual play in different positions, the handling of pitchers, signals, batting, fielding, sliding, base-running, and other technical and strategical procedures in play. Mr. Hearn; Assistants.

62. HEALTH EDUCATION II (5).

This course includes a general survey of principles of sanitary science and their application to water, milk, and food; the disposal of sewage and garbage; ventilation; and school, home, and community health problems, including child and adult hygiene. *Five hours a week, winter quarter.* Professor Cornwell.

62a. Laboratory work of six hours is required in games of low organization. The object of this course is to develop skill in and familiarity with a wide variety of activities in physical education suitable for schools and recreation centers. Mass athletics, marching, tumbling and stunts, volleyball, handball, and many other activities adaptable to groups differing in age and skill will be offered. Professor Siewert; Assistants.

62b. Laboratory work for women includes the teaching of soccer and games of low organization, and the coaching and officiating of various sports. *Spring quarter.* Professor Beard.

63. HEALTH EDUCATION III (5).

This course presents methods and materials for the teaching of health and the handling of school health problems. How to teach and what to offer in classes in health. Discussion of the methods and subject matter used in presenting hygiene to students. Includes a study of the opportunities for integration of materials on health with other subjects of the organized curriculum. *Five hours a week, spring quarter.* Professor Cornwell.

63a. Laboratory work of six hours weekly is required in the coaching of boxing and wrestling. This course is designed to acquaint students with the various techniques in both offensive and defensive boxing and wrestling. Methods of teaching the various skills to both individuals and groups will be considered. Messrs. Ronman, Quinlan; Assistants.

64. DIRECTED TEACHING OF PHYSICAL EDUCATION (5). Prerequisite, courses to be determined by instructor.

This course is designed to give the student experience and practical work in the classroom and gymnasium and on the playing field. Actual teaching together with the making of lesson plans, conferences with the instructor, and discussions of various techniques used make up the course content. *Five hours a week, every quarter.* Professor Siewert.

64a. Laboratory work of six hours is required in Games of high organization. The object of this course is to develop skill in and familiarity with a wide variety of activities in physical education suitable for schools and recreation centers. Volleyball, soccer, speedball, badminton, tag football, deck tennis, handball, playground ball, and other activities will be offered. Professor Siewert; Assistants.

71. ANATOMY (5).

This course is designed to teach the fundamentals of gross anatomy of the human body by means of lectures and demonstrations, using charts, models, and drawings. Students are supplied, through the cooperation of the University School of Medicine, with sets of typical bones from the human body and are permitted to use the anatomy laboratory for practical demonstrations on the human cadaver. Practical observations are made to illustrate the anatomical or common athletic injuries and methods of their treatment. Supplementary lectures are given by members of the Department of Anatomy of the Medical School. *Five hours a week, fall quarter.* Professor Lawson.

72. PHYSIOLOGY (5).

Prerequisite, Physical Education 71 or the equivalent of Zoology 41 and 42.

A lecture course in elementary physiology, covering the muscular, cardio-respiratory, nervous, gastro-intestinal, and reproductive systems. *Five hours a week, winter quarter.* Professor Lawson.

73. INDIVIDUAL PHYSICAL EDUCATION FOR MEN (5).

Theory and practice in making a program in physical education meet the needs of handicapped individuals, fundamental principles in the selection and adaptation of activities in corrective procedures, abnormal conditions which come to the attention of the physical educator, methods of examining and determining individual needs, activity programs of both formal and informal character to meet the needs in schools and colleges, will be the problems dealt with in this course. *Five hours a week, with a laboratory requirement, spring quarter.* Professor Lawson.

74. INDIVIDUAL PHYSICAL EDUCATION FOR WOMEN (5).

Anatomy and kinesiology of posture; analysis of correct anatomical positions; physical examinations; faulty posture and body mechanics; correctives in the high school; organization of a corrective program will be the problems dealt with in this course. *Five hours a week, spring quarter.* Miss Tisdale.

74a. Laboratory work of six hours is required in the coaching of baseball, tennis, and individual sports. There will be provided opportunity for the practice of the fundamental skills and team play of each. *Spring quarter.* Professor Beard, Miss Tisdale.

85a. CHILD RHYTHMICS AND ELEMENTARY DANCING FOR THE PUBLIC SCHOOLS (2½).

A study of the development of rhythm in children; building rhythmic patterns; utilizing these patterns in such dance forms as folk and dramatic dances, clog and tap dances. *Two and a half hours a week, fall quarter.* Professor Beard; Miss Tisdale.

85b. RHYTHMICS FOR PUBLIC SCHOOLS AND COLLEGES (2½).

A study of the rhythmic pattern of the body movements in the various dance forms. Materials and methods for teaching rhythmics in secondary schools and colleges. Attention will be given to folk, modern, tap, and various other forms of dancing. *Two and a half hours a week, winter quarter.* Professor Beard; Miss Tisdale.

*DEPARTMENT OF PHYSICS

Professors: A. E. RUARK, **O. STUHLMAN, JR., K. H. FUSSLER, E. K. PLYLER.
Associate Professor: J. B. FISK.
Visiting Associate Professor: R. H. LYDDANE.
Instructor: P. E. SHEARIN.
Teaching Fellow: A. C. MENIUS, JR.
Assistants: E. I. HOWELL, D. A. MCGRAW, L. D. WYLY, JR., D. R. MCMILLAN, JR.
Research Associate: CREIGHTON C. JONES.

Courses for Undergraduates

1-2-3. DESCRIPTIVE PHYSICS (12). Fulfills the freshman requirement in science; is not accepted as meeting the requirement for admission to the School of Medicine. A cultural course emphasizing the historical development of physics, and its influence on modern life and thought. Text: Black, *An Introductory Course in College Physics.*

Part I. Mechanics and Heat. *Fall quarter.*

PART II. Sound, Light, Magnetism. *Winter quarter.*

Part III. Electricity, Structure of Atoms and Molecules, leading facts of Astronomy. *Spring quarter.*

NOTE: All three parts must be completed in order to secure any credit.

Two lecture, one discussion, and two laboratory hours a week. Laboratory fee, $2.75 a quarter. Lectures: Professor Ruark. Discussion period: Professors Ruark, Fisk. Laboratory: Professor Fussler; Assistants.

---

* For A.B. with Major in Physics (Math. 1-2-3, Chemistry 1-2-3, Physics 21-22-23, and Math. 21-22-23, should have been completed in the General College); six courses in physics, six courses in other natural sciences including Math. 141 and, for students with mathematical tendencies, one other course in mathematics, or for students with experimental tendencies, courses in chemistry and biology; six electives from Departments not in the Division of the Natural Sciences, with English 59 and Philosophy 141 strongly recommended.

For S.B. in Physics the student should take in the General College: Physics 1-2-3 or 21-22-23; 55; 56 or 52; 42 or 54; two years of mathematics, two of English, two of French or German, Social Science 1-2-3. In the junior and senior years he should take Physics 53; 52 or 56; 58; Math. 41 and 141; Chemistry 1-2-3; English 59; five and one-half electives; five to six additional courses in chemistry, mathematics, and physics.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 127.

** Absent on leave on the Kenan Foundation, fall quarter, 1938-1939.

21-22-23. GENERAL PHYSICS (12). Prerequisite, Freshman Mathematics. Text: Foley, *College Physics.*

Part I. Mechanics of solids, liquids, and gases. *Fall quarter.*

Part II. Electricity and Magnetism, Heat. *Winter quarter.*

Part III. Completion of Heat, Sound, Light. *Spring quarter.*

NOTE: All three parts must be completed in order to secure any credit.

Two lecture, one discussion, and two laboratory hours a week. Laboratory fee, $2.75 a quarter. Lectures: Professor Fussler, Dr. Shearin. Discussion period: Professor Fussler, Dr. Shearin. Laboratory: Professor Fussler; Assistants.

24-25. GENERAL PHYSICS (12).

A six-hour double course covering general physics in two quarters. Identical with Physics 21-22-23 in subject matter, textbook, total credit, and prerequisite work.

Part I. Mechanics of solids, liquids, and gases; Heat and Sound. *Winter Quarter.*

Part II. Electricity and Magnetism, Light. *Spring quarter.*

NOTE: Both parts must be completed in order to secure any credit.

Five lecture and three laboratory hours a week. Laboratory fee, $4.00 a quarter. Lectures: Professor Stuhlman. Laboratory: Professor Fussler; Assistants.

41. ASTRONOMY (5).

A general course in descriptive and historical astronomy; lectures and recitations, with use of lantern slides, star-maps, telescope, and other instruments. Text: Duncan, *Astronomy. Five hours a week with occasional observations, spring quarter.* Professor Fussler.

42. RADIO (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25.

Designed for amateurs and students with majors in science. Properties of electron tubes and photocells; study of basic circuits and measuring devices; transmission and reception. Television, sound movies, and industrial applications. Texts: Albert, *Fundamental Electronics and Vacuum Tubes;* and Handbook, American Radio Relay League. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Professor Ruark.

45. PHOTOGRAPHY (3).

A general course for amateurs, art students, prospective teachers, and others interested in photography. Study of cameras and other photographic equipment. Picture taking, developing, printing, enlarging, portraiture, technique of photographing art objects under various conditions, composition, color photography. For students attaining a reasonable mastery of the technical phases of photography, Professor Russell Smith of the Art Department will be available for instruction and consultation in photographic composition over a period of two weeks or more. Text: Mees, *Fundamentals of Photography. Two lecture and three laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Dr. Shearin.

51. X-RAY TECHNIQUE: BIOPHYSICS (6). Prerequisite, Physics 21-22-23 or 24-25.

Laboratory work in roentgenographic technique. Physical aspects of X-ray tubes and high voltage generators. Dosimetry. Primarily for

students who will enter the medical profession. *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $15.00.* Professor Stuhlman.

52. MECHANICS (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 179.

Text: Ericson, *Elements of Mechanics. Four lecture and two laboratory hours a week, winter quarter. Laboratory fee, $3.00.* Professor Fussler.

53. OPTICS (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 179.

Geometrical and physical optics. Text: Monk, *Light: Principles and Experiments. Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Stuhlman.

54. MODERN DEVELOPMENTS IN PHYSICS (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25, except by permission.

Particularly for students with majors in other fields, who wish a knowledge of twentieth-century physics. *Five hours a week, spring quarter.* Professor Fisk.

55. ELECTRICITY AND MAGNETISM (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 179.

A course suited to the needs of students in all sciences. Laboratory work includes the use of direct current instruments; alternating current phenomena, and radio experiments. Text: Loeb, *Fundamentals of Electricity and Magnetism. Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Fussler.

56. HEAT (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 179.

Temperature measurements, calorimetry, radiation, heat conduction, elements of kinetic theory of gases and of thermodynamics. Text: Barton, *Heat. Four lecture and two laboratory hours a week, winter quarter. Laboratory fee, $3.00.* Professor Plyler.

57. BIOPHYSICS (5). Prerequisite, Physics 21-22-23 or 24-25.

Especially for students who expect to enter the medical profession. Physics of the human sense organs; illumination, radiant energy, calorimetry, the optical system of the microscope; audiometry, medical applications of electricity; molecular physics in relation to biology. *Two lecture, one discussion, and four laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Stuhlman.

58. SOUND (5). Prerequisite, Physics 1-2-3, or 21-22-23 or 24-25, and 55 or 52.

Sound measurements, applications to sound reproducers and recorders; sound ranging, supersonic waves, the physics of musical instruments, the human ear and its defects. Text: Colby, *Sound Waves and Acoustics. Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Dr. Shearin.

91, 92. RESEARCH FOR SENIORS (5 each).

Laboratory fee, $5.00. Professors Fussler, Plyler, Ruark, Stuhlman.

Courses for Graduates and Advanced Undergraduates

101. INTRODUCTION TO MATHEMATICAL PHYSICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56, 58.

Mathematical treatment of dynamics, statistical mechanics, thermodynamics, and electricity. Text: Page, *Introduction to Theoretical Physics. Five hours a week, fall quarter.* (1940-1941 and alternate years.) Professor Plyler.

105. INDUSTRIAL PHYSICS (5). Prerequisite, three of the courses Physics 52, 53, 55, 56, 58, except by permission.

Studies of the use of physics for manufacturing control and research in industry. *Five hours a week, fall quarter.* Professor Ruark.

106. PHYSICAL MEASUREMENTS AND TECHNIQUES (5). Prerequisite, three of the courses Physics 52, 53, 55, 56, 58, except by permission.

Work on precision instruments and important research procedures, such as vacuum technique, ionization measurements, and use of spectrographic equipment; oscillographic studies and electron tube applications. *Ten laboratory hours a week, winter quarter. Laboratory fee, $3.00.* Professor Ruark; other members of the staff.

110. PHYSICAL MECHANICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56, 58.

Lectures, problems. Text: Lindsay, *Physical Mechanics.* (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Plyler.

120. HEAT AND INTRODUCTORY THERMODYNAMICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Conduction of heat, kinetic theory, and thermodynamics. More advanced and detailed than Physics 56, with emphasis on theory rather than experiment. Text: Saha and Srivastava, *Heat.* (1940-1941 and alternate years.) *Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Plyler.

140. ELECTRICITY AND MAGNETISM (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56, 58.

Electrostatics, electrodynamics, and magnetic phenomena. Text: Page and Adams, *Principles of Electricity.* (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Plyler.

141. ADVANCED ELECTRICITY AND MAGNETISM (5). Prerequisite, Physics 140.

Continuation of Physics 140, with laboratory work, including high frequency measurements. Text: Page and Adams, *Principles of Electricity.* (1939-1940 and alternate years.) *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Professor Plyler.

150. PHYSICAL OPTICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Diffraction, interference, polarization, resonance radiation, scattering, emission, and absorption; the electromagnetic theory of light. Text: Wood, *Physical Optics.* (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Fisk.

153. OPTICS (5). Prerequisite, Physics 21-22-23 or 24-25.

Identical with Physics 53, except that additional laboratory work and problems are required of graduate students enrolling in 153. *Four lecture and four laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Stuhlman.

160. ELECTRONICS AND ATOMIC PHYSICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Ionization phenomena; the electron and other elementary particles, photo-electric effect, thermionics, isotopes, elementary quantum theory, absorption and emission of radiant energy. Zeeman and Stark effects, X-rays, wave properties of matter, radioactivity. Text: Harnwell and Livingood, *Experimental Atomic Physics. Five hours a week, winter quarter.* Professor Stuhlman.

161. RADIOACTIVITY (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Radioactive elements and their radiations; neutrons, positrons, artificial disintegration, artificially radioactive elements; their use as chemical indicators; cosmic rays. Text: Rusetti, *Introduction to Nuclear Physics.* (1939-1940 and alternate years.) *Three lecture and four laboratory hours a week, fall quarter.* Professor Fisk.

170. X-RAYS (5). Prerequisite, Calculus and Physics 53, 55, and 160, except by permission.

Optical properties of X-rays, absorption and scattering, X-ray spectra, energy levels, and transition probabilities; crystal structure determination with X-rays and electron waves; industrial applications. Text: Compton and Allison, *X-Rays in Theory and Experiment.* (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Ruark.

*DEPARTMENT OF POLITICAL SCIENCE

Professors: W. W. Pierson, H. M. Wagstaff, E. J. Woodhouse, K. C. Frazer.

Associate Professors: **W. S. Jenkins, C. B. Robson, P. W. Wager, J. W. Fesler.

Assistant Professor: E. A. Mauck.

Instructors: Henry Brandis, Jr., E. C. Gass.

Teaching Fellow: C. O. Lerche, Jr.

Assistant: Nancy C. Nesbit.

Courses for Undergraduates

31-32-33. INTRODUCTION TO POLITICAL LIFE—LOCAL, NATIONAL AND INTERNATIONAL (9).

A survey of the institutions and problems of political life in the local area, the state, the nation, and the international community. The emphasis is on the actual and vital relations between the citizen and

* The requirements for A.B. with a major in Political Science are Political Science 31-32-33, or the equivalent, and six additional courses. These six courses must be approved by the departmental adviser on the basis of the following plan: (1) there must be distribution among at least four of the groups into which the advanced courses offered by the department fall, namely, local and state government, federal government, foreign governments, political theory, historical jurisprudence, international politics, and public administration; and 2) there must be concentration of at least two courses in one of these fields.

** Absent on leave, fall quarter, 1938.

government with a view to stimulating an intelligent and thoughtful interest in the politics of the present. Each member of the department lectures in the field of his specialization and there is directed reading and written work on the basis of a syllabus prepared cooperatively. The student will not be required to buy a text-book but will pay a book fee of one dollar ($1.00) a quarter. Sophomore elective. *Three hours a week, through the year.* Professors Robson (chairman), Pierson, Wagstaff, Woodhouse, Frazer, Jenkins, Fesler; Mr. Lerche.

41-42. INTRODUCTION TO POLITICAL LIFE—LOCAL, NATIONAL, AND INTERNATIONAL (10).

Same as Political Science 31-32-33 above in content, but given as a double course in two quarters. *Five hours a week, winter and spring quarters.* Professor Robson.

51. THE GOVERNMENT OF THE UNITED STATES (5).

An intensive study of the constitutional basis, the historical development, the organization, operation, and problems of the federal government of the United States. Textbooks, lectures, readings, and reports. Credit may not be obtained for 51 by students who offer credits in 31-32-33 or 41-42. *Five hours a week, each quarter.* Professors Jenkins, Frazer, Mauck.

52. THE GOVERNMENTS OF EUROPE (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the principal governments of Europe including Great Britain, France, Germany, Italy, and Russia. Special attention is given to comparisons and contrasts among these governments and with government in the United States. Textbooks, lectures, readings, and reports. *Five hours a week, winter or spring quarter.* Professor Robson.

61. TAX ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A brief survey of the major federal, state, and local taxes, with emphasis on administrative practices, and with particular emphasis on material, largely gathered in field studies, dealing with the administration of tax laws in North Carolina. *Five hours a week, spring quarter.* Mr. Brandis.

81. AMERICAN STATE GOVERNMENT (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study in the principles, organization, and administrative methods of state government. In connection with the course will be a special study of the government of North Carolina. Lectures, readings, and reports. *Five hours a week, fall or spring quarter.* Professor Jenkins.

86. INTERNATIONAL RELATIONS AND WORLD POLITICS (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

This course is designed to serve as an introduction to the study of international affairs. Its purpose is to lay the foundations for a general knowledge of the subject. *Five hours a week, spring quarter.* Professor Frazer.

91. PHILOSOPHY OF THE STATE (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

For description see Philosophy 91. Professor Thomas (of the Department of Philosophy).

Courses for Graduates and Advanced Undergraduates

101. PUBLIC ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

General problems and principles of public administration. Structural problems: the separation of powers, organization of administrative agencies, areal problems of administration. Personnel problems: recruitment, promotion, removal, classification, civil servant unions. Financial problems: budgeting, auditing, purchasing, taxing, borrowing. Administrative law: growth and significance of administrative legislation and adjudication. *Five hours a week, fall quarter.* Professors Fesler, Mauck.

121. THE GOVERNMENT OF ENGLAND (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

The objective of this course is a knowledge of the development and operation of the English government. Local, national, and imperial aspects of England's governmental practice will receive attention. Resemblances and contrasts between her government and that of our own country will be pointed out for the practical lessons which the parallel supplies. Lectures and readings. *Five hours a week, fall quarter.* Professor Wagstaff.

122. GOVERNMENT AND ADMINISTRATION OF EUROPEAN CITIES (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general consideration of principles and methods of social control in the municipalities of Great Britain, France, and Germany, with some attention to those of other nations. Comparisons with American conditions. *Five hours a week, spring quarter.* Professor Woodhouse.

132. AMERICAN MUNICIPAL GOVERNMENT (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

An historical survey of the development of governmental structure, theory, and functions in American municipalities, and careful analysis of existing municipal conditions, with special attention to city and town government in North Carolina. Each student will make an intensive study of his own or some other city or town. *Five hours a week, fall quarter.* Professor Woodhouse.

133. AMERICAN MUNICIPAL ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Special study of the principles and problems of administration in American municipal corporations of such functions as police, public education, charities and correction, local improvements, public health, finances, with emphasis on city and town administration in North Carolina. Each student will select and study exhaustively a municipal problem in one municipality. *Five hours a week, winter quarter.* Professor Woodhouse.

134. COUNTY GOVERNMENT AND ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the forms of organization, the functions, and the operation of county government in the United States and especially in North Carolina in their historical development, but with special emphasis on present conditions and tendencies and on possible improvements. Each student will be required to study, as extensively and intensively as possible, the government and administration of one county, preferably

his home county, and to put his results into essay form. Textbooks, lectures, and readings. *Five hours a week, winter quarter.* Professor Wager.

141. INTRODUCTION TO INTERNATIONAL LAW (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general survey of the history, the sources, and the content of international law. *Five hours a week, fall quarter.* Professor Frazer.

142. INTERNATIONAL ORGANIZATION AND INSTITUTIONS (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of all important international governmental institutions. The administrative unions, the League of Nations, and the international courts are examined and discussed. Lectures, readings, and reports. *Five hours a week, winter quarter.* Professor Frazer.

144. THE ORGANIZATION AND CONDUCT OF THE FOREIGN RELATIONS OF THE UNITED STATES (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

The machinery of foreign relations, organs for conduct, and the foreign service are analyzed and discussed. Foreign policies are discussed from the standpoint of their formation and content. *Five hours a week, spring quarter.* Professor Frazer.

151-152. THE ELEMENTS OF POLITICAL SCIENCE (10). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general course in which a study is made of the principles of political science and of the important theories respecting the nature, origin, forms, and ends of the state and of government. An examination of the literature of the subject will be made, supplemented by students' reports on selected political theorists. Lectures, textbooks, and readings. *Five hours a week, fall and winter quarter.* Professor Pierson.

154. DEVELOPMENT OF THE ENGLISH CONSTITUTION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general course surveying the origin and development of the constitutional machinery of the British monarchy. Emphasis will be laid on the successive constitutional landmarks from the Norman Conquest to the Parliament Act of 1911. Lectures, textbooks, and readings. *Five hours a week, winter quarter.* Professor Wagstaff.

155. THE CONSTITUTION OF THE UNITED STATES (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A course in constitutional law covering by means of lectures, textbooks, and cases the fundamental principles of constitutional interpretation and practice in the United States. *Five hours a week, winter quarter.* Professor Jenkins.

156. CONTEMPORARY PROBLEMS IN GOVERNMENT (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the present organization and actual operations of our national and state governments through the day to day acts of their departments as reported in the United States Daily, other newspapers, periodicals, and available official reports. Lectures, readings, and reports. *Five hours a week, spring quarter.* Professor Woodhouse.

157. HISTORICAL JURISPRUDENCE I (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Ancient and medieval law; brief study of Egyptian, Babylonian, Greek, and Hebrew law, chiefly in their methods and agencies of formulation and administration; detailed study of the historical evolution of Roman law, of its fate during the Middle Ages, and of its spread and influence in the Modern World; some consideration of the parts played in medieval Europe by the Germanic, Slavonian, and Celtic legal systems. *Five hours a week, winter quarter.* Professor Woodhouse.

158. HISTORICAL JURISPRUDENCE II (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Anglo-American law; historical study of the development of English law, legislation, courts, and court procedure from the Anglo-Saxon Conquest of England to the settlements in North America by the English; and of the evolution of the legal system in these English colonies and in the United States to the present day. *Five hours a week, spring quarter.* Professor Woodhouse.

159. THE BRITISH EMPIRE (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the structure of the British Empire, its evolution into a British Commonwealth of Nations, and an examination of the bonds which hold it together. *Five hours a week, spring quarter.* Professor Wagstaff.

165 (153). POLITICAL THOUGHT OF THE EIGHTEENTH CENTURY (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

An analysis of the development of liberal and democratic political thought, with emphasis on the ideas of the American and French Revolutions. Lectures and reports. *Five hours a week, winter quarter.* Professor Pierson.

166. POLITICAL THOUGHT OF THE NINETEENTH CENTURY (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

An analysis of the development of the theory of constitutional democracy together with an examination of the principal lines of criticism of that form of government which were presented in the century. *Five hours a week, spring quarter.* Professor Robson.

175. POLITICAL PARTIES AND PUBLIC OPINION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

History, organization, and policies of major and minor parties; nominating systems; ballot and election laws; party finance; political machines; influence of party upon executive and legislative branches of government. Special emphasis upon the relation of party to administration and to current American politics. Lectures, readings, and reports. *Five hours a week, fall quarter.* Professor Woodhouse.

181. RECENT NATIONAL POLICY AND ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

The governmental problems faced by the New Deal, and the solutions attempted through the NRA, AAA, RFC, TVA, and similar agencies. Particular attention will be devoted to administrative aspects of the New Deal; conflicts of policy among the new agencies, growth of governmental corporations, recruiting of personnel, budgetary prob-

lems, and the increased delegation of legislative power to administrative agencies. *Five hours a week, spring quarter.* Professor Fesler.

The following courses offered by the Department of Economics will receive credit in Political Science in fulfillment of requirements for undergraduate and graduate majors: Economics 141. Public Finance (5). Professor Heer; Economics 142. Fiscal Organization and Administration (5). Professor Heer; Economics 143. Problems in Public Finance (5). Professor Heer; Economics 197. Government and Business (5). Professor Hobbs.

*DEPARTMENT OF PSYCHOLOGY

Professors: J. F. DASHIELL, H. W. CRANE, ENGLISH BAGBY.
Assistant Professors: A. G. BAYROFF, R. J. WHERRY.
Instructors: A. C. CORNSWEET, H. M. MACPHEE, R. L. BOLTON.
Teaching Fellow: L. L. LAYTON.
Assistants: MILDRED C. MENDENHALL, MARGARET E. ROBINS.

21-22-23. GENERAL PSYCHOLOGY (12).

The aim of the course is to present the essential phenomena of psychology as an experimental natural science. Emphasis is placed on the organic relationships within the whole field and upon some crucial problems of daily life. Lectures, textbooks, laboratory. Sophomore elective. *Three lecture and demonstration hours and two laboratory hours a week, throughout the year. Laboratory fee, $2.00 a quarter.* Professors Bagby, Wherry; Messrs. Cornsweet, MacPhee, Bolton, Layton.

24-25. GENERAL PSYCHOLOGY (12).

Identical in content with sequence 21-22-23, but arranged in a two-quarter sequence. *Five lecture and demonstration hours and four laboratory hours a week, winter and spring quarters. Laboratory fee, $3.00 a quarter.* Professor Bayroff.

NOTE: General Psychology is prerequisite for all other courses in the department.

Courses for Graduates and Advanced Undergraduates

125. ANIMAL BEHAVIOR (5).

A survey of behavior in the various phyla, followed by a critical survey of experimental problems concerning vertebrates including man. The course is of general psychological character, emphasizing central concepts. Typical experiments. *Four lecture and two laboratory hours a week, winter quarter. Laboratory fee, $2.00.* Professor Bayroff; Mr. Cornsweet.

---

* For A.B. with a major in Psychology as a Natural Science two programs are offered. In each the student is required to take six courses chosen from the allied fields of mathematics, physics, zoology, and the School of Medicine. Required courses in the Major Department are: in the first program (for students with more general interests); 190 and 151 or 152 or 153, with any four undergraduate courses exclusive of 21-22-23 or 24-25; in the second group (for students with applied interests); 146, 147, and 151 or 152 or 153, with three additional courses selected from 126, 135, 136, 138, 140 and 145.

For A.B. with major in Psychology as a Social Science: six courses within the Department of Psychology, including 190 and 151, or 152, or 153; 6 courses in other social sciences, preferably economics, education, philosophy, and sociology; 6 electives from outside the Division of the Social Sciences, preferably in mathematics, physics, and zoology.

126. CHILD DEVELOPMENT (5).

A survey of experimental and clinical contributions in the contemporary field of child-development, including foetal, neonate, pre-school, school, and adolescent ages. Experimental observations. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $1.50.* Professor Dashiell; Mr. MacPhee.

130. ELEMENTARY PSYCHOLOGICAL STATISTICS (5).

Measures of distribution, reliability, simple correlation, and regression. Training given in graphic work and use of statistical machines. The use and misuse of statistical methods in handling psychological problems are stressed. *Three lecture and four laboratory hours a week, fall quarter. Laboratory fee, $1.00.* Professor Wherry; Mr. Layton.

133. SOCIAL PSYCHOLOGY (3).

Readings on experimental techniques and findings. Lectures furnish historical survey, and analyses of the psychological processes underlying social phenomena. *Three hours a week, spring quarter.* Professor Bagby.

135. ECONOMIC PSYCHOLOGY: PERSONAL AND PUBLIC RELATIONS (5).

Psychological problems of business and industry as they relate to the employer, the employee, and the public. An intensive survey of problems, prediction, and control. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $1.50.* Professor Wherry; Mr.....

138. LEGAL PSYCHOLOGY (5).

Some of the major problems of a psychological nature with which the law is concerned. A natural science approach leading ultimately to implications of practical legal character. Readings, lectures, and experiments. (1939-1940 and alternate years.) *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Dashiell.

140. THE PSYCHOLOGY OF PERSONALITY (5).

This course is concerned primarily with the factors which determine the form and quality of the human personality. *Five hours a week, winter quarter.* Professor Bagby.

144. MENTAL HYGIENE (5).

A genetic approach to behavior problems in relation to factors found in infancy, pre-school, school, and adult periods. Case material is used with direct applications to problems of the social service worker, and also the parent and the educator. *Five hours a week, winter quarter.* Professor Crane.

145. ABNORMAL PSYCHOLOGY: FEEBLE-MINDEDNESS (5).

The psycho-neural aspects of feeble-mindedness, and its importance to problems of education, dependency, and delinquency. (1940-1941 and alternate years.) *Five hours a week, winter quarter. Laboratory fee, $1.00.* Professor Crane.

146. ABNORMAL PSYCHOLOGY: PSYCHONEUROSES AND PSYCHOSES (5).

Attention is given to major and minor abnormalities and to their occurrence in various specific psychoses. *Five hours a week, spring quarter. Laboratory fee, $1.00.* Professor Crane.

147. ABNORMAL PSYCHOLOGY: METHODS OF MENTAL EXAMINATION (5).

The various psychological methods used in the clinical study of individuals, including specialized as well as general defects. Lectures, experiments, readings. *Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Crane; Assistants.

151, 152, 153. ORIGINAL PROBLEMS (5 each).

To the student who finds himself especially interested in some particular problem of psychology, opportunity is here offered for experimental, clinical, or statistical study. May be elected any quarter. *One lecture and eight laboratory hours a week, fall, winter, or spring quarter. Laboratory fee, $3.00 a quarter.* Professors Dashiell, Crane, Bagby, Wherry, Bayroff.

191. HISTORICAL SURVEY OF PSYCHOLOGY (5).

From Greek thinkers through modern times; with emphasis on experimental, clinical, and theoretical developments of the nineteenth century. Readings in sources, especially Wundt, Ebbinghaus, Galton, Janet, James. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Dashiell.

192. CONTEMPORARY PSYCHOLOGICAL TRENDS (5).

A review of recent American and European treatments of psychological problems. Readings in Titchener, Watson, Freud, Köhler and Koffka, Lewin, Spranger, Jaensch, Klages, and others. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Dashiell.

DEPARTMENT OF ROMANCE LANGUAGES

Professors: W. M. DEY, S. E. LEAVITT, U. T. HOLMES, N. B. ADAMS, H. R. HUSE, J. C. LYONS (Secretary).

Associate Professors: H. H. STAAB, R. S. BOGGS, S. A. STOUDEMIRE, W. L. WILEY.

Assistant Professor: R. W. LINKER.

Instructors: J. L. SMITH, T. E. WRIGHT, J. E. CARROLL, F. C. HAYES, W. D. CREECH, W. R. WEAVER, A. G. ENGSTROM, L. L. BARRETT, R. D. WHICHARD, E. D. HEALY, R. G. LEWIS, E. T. MOYER, E. D. TURNER, D. S. WOGAN, W. B. NAPIER, G. C. S. ADAMS.

Teaching Fellows: J. W. HASSELL, W. R. LANSBERG, T. M. DUFFEY.

*FRENCH

Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE FRENCH (9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate French (11-12-13). The completion of French 1-2-3 gives credit for Intermediate French. *Six hours a week, through the year.* Professors Lyons, Wiley, Linker; Messrs. Smith, Wright, Carroll,

* Students interested in having a major in French will please consult Dr. J. C. Lyons, Departmental Adviser.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 127.

Creech, Engstrom, Whichard, Healy, Lewis, Moyer, Napier, G. C. S. Adams, Hassell, Lansberg.

Note: No student is permitted to take French 1 or 2 or 3 and Spanish 1 or 2 or 3 at the same time.

Attention is called to French 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

11-12-13. INTERMEDIATE FRENCH (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and Sophomore elective. *Three hours a week, through the year.* Professors Huse, Staab, Wiley, Linker; Messrs. Smith, Wright, Carroll, Creech, Engstrom, Whichard, Healy, Lewis, Moyer.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially qualified for such study. Sophomore elective. *Three hours a week, through the year.* Professor Wiley.

21-22-23. ADVANCED FRENCH (9). Prerequisite, French 1-2-3, or 11-12-13, or the equivalent.

Masterpieces of French Literature with selected readings from representative authors. Sophomore elective. *Three hours a week, through the year.* Professors Dey, Huse, Lyons, Wiley, Linker; Messrs. Smith, Carroll, Creech, Engstrom, Whichard, Healy, Lewis, Moyer.

24-25. COMMERCIAL FRENCH (6). Open only to students who plan to enter the School of Commerce. Prerequisite, French 21.

The object of this course is to give the student practical training in modern French. Newspaper and magazine articles dealing with the life and customs of the country are read. Practice in social and commercial correspondence. French 25 is largely conducted in French. *Three hours a week, winter and spring quarters.* Professor Staab.

51. FRENCH CONVERSATION AND COMPOSITION (5). Prerequisite, French 23.

The object of this course is to provide students with an opportunity to acquire practice in spoken French. Discussion in French on subjects of general interest. Composition and outside reading. *Five hours a week, fall or spring quarter.* Professor Lyons.

52. FRENCH CIVILIZATION (5). Prerequisite, French 51.

A rapid survey of the history of France, with emphasis on political and economic developments necessary to an understanding of the present situation. History and discussion of French institutions, with some reference to the history of French art and French music. All lectures, discussions, and reports on collateral reading are in French. *Five hours a week, winter quarter.* Professor Lyons.

55. REVIEW OF GRAMMAR AND SYNTAX (5). Prerequisite, French 23.

This course is primarily for teachers, and is open to juniors and seniors who intend to teach French. It consists of an intensive review study of the elements and fundamentals of French grammar and syntax. Before registering for this course, students must secure the permission of the instructor. *Five hours a week, winter quarter.* Mr. Smith.

71. SURVEY OF FRENCH LITERATURE TO 1700 (5). Prerequisite, French 23.

A survey of French literature from the beginnings to 1700, with special emphasis on the prose literature of the classical period. This course (together with French 72) is intended to provide undergraduate students with a comprehensive knowledge of French literature, and to serve as a background course for those who intend to do further work in the field. Open to juniors and seniors. *Five hours a week, fall or spring quarter.* Professors Huse, Lyons.

72. SURVEY OF FRENCH LITERATURE SINCE 1700 (5). Prerequisite, French 71.

A continuation of the preceding survey course covering the period since 1700. This course alternates each quarter with French 71. Open to juniors and seniors. *Five hours a week, fall or winter quarter.* Professors Dey, Wiley.

Courses for Graduates and Advanced Undergraduates

109. THE FRENCH NOVEL (5). Prerequisite, French 72.

A study of the development of the novel in France. Lectures, readings, reports. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Dey.

115. FRENCH LYRIC POETRY (5). Prerequisite, French 72.

A study of French lyric poetry, beginning with Villon. Lectures, readings, reports. *Five hours a week, spring quarter.* Professor Huse.

126. HISTORY OF THE FRENCH LANGUAGE (5). Prerequisite, French 72.

A general survey from the origins to the present day, with especial emphasis upon the period, 1500-1900; the influence of the Erudits, Precieuses, Philosophes, and Romanticists; spelling reforms. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Holmes.

131. THE FRENCH DRAMA PRIOR TO 1700 (5). Prerequisite, French 72.

A survey of the religious and comic theatres of the Middle Ages; the theatre of the Renaissance and its relation to the classic theatres of Greece and Rome; the neo-classic theatre of the 17th century. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Wiley.

132. THE FRENCH DRAMA SINCE 1700 (5). Prerequisite, French 72.

A survey of Modern French Drama with special attention to the theatrical principles and ideas of the different dramatic schools of the last two centuries. (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Wiley.

145. FRENCH PHONETICS (5). Prerequisite, French 72.

A detailed study of the French vowel and consonant sounds by the phonetic method. This course is required of candidates with a major in French for the master's degree, and it should be elected by anyone who intends to teach French. *Five hours a week, fall quarter.* Professors Dey, Wiley.

161. THE SIXTEENTH CENTURY (5). Prerequisite, French 72.

A general treatment of the chief movements in French literature of the 16th century, with some reference to the Italian Renaissance and its influence on France. Specimen readings from the more important poets and prose writers; Marot, Rabelais, the Pléiade, Montaigne, etc. *Five hours a week, spring quarter.* Professor Lyons.

171. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (5). Prerequisite, French 72.

A study of the period of Henry IV and Louis XIII. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Lyons.

172. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (5). Prerequisite, French 72.

This course deals with the literature of the reign of Louis XIV. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Lyons.

181. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (5). Prerequisite, French 72.

Voltaire, Montesquieu, Rousseau, les Encyclopédistes. A study of the literary movement of the century and of the origins of romanticism. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Huse.

191. FRENCH ROMANTICISM (5). Prerequisite, French 72.

French literature from 1800 to 1850, with special stress on the works of the romantic poets, Lamartine, Hugo, Vigny, and Musset. Lectures, readings, reports. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Dey.

192. FRENCH LITERATURE SINCE 1850 (5). Prerequisite, French 72.

A study of the later literary movements of the 19th century, with some emphasis on the contemporary period. Lectures, readings, reports. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Dey.

CELTIC 105. OLD IRISH (5).

Grammar and reading of texts. *Pokorny's Old Irish Reader, Táin Bó Cuailnas* (Supplement to *Eriu.*) *Five hours a week, winter quarter.* Professor Holmes.

*SPANISH

Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE SPANISH (9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate Spanish (11-12-13). The completion of Spanish 1-2-3 gives credit for Intermediate Spanish. *Six hours a week, through the year.* Professor Stoudemire; Messrs. Hayes, Weaver, Wogan, Barrett, Turner, Duffey.

Note: No student is permitted to take French 1 or 2 or 3 and Spanish 1 or 2 or 3 at the same time.

* Students interested in having a major in Spanish will please consult Dr. S. E. Leavitt, Departmental Adviser.

Attention is called to Spanish 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

11-12-13. INTERMEDIATE SPANISH (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and Sophomore elective. *Three hours a week, through the year.* Professors Leavitt, N. B. Adams, Stoudemire; Messrs. Hayes, Weaver, Barrett.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially qualified for such work. Sophomore elective. *Three hours a week, through the year.* Professor Stoudemire.

21-22-23. ADVANCED SPANISH (9). Prerequisite, Spanish 1-2-3, or 11-12-13, or the equivalent.

Masterpieces of Spanish Literature with selected readings from representative authors. Sophomore elective. *Three hours a week, through the year.* Professors N. B. Adams, Boggs, Studemire; Dr. Hayes.

24-25. COMMERCIAL SPANISH (6). Open only to students who plan to enter the School of Commerce. Prerequisite, Spanish 21.

The object of this course is to give the student practical training in modern Spanish. Newspapers and magazine articles dealing with the life and customs of South America are read. Practice in commercial correspondence. Spanish 25 is largely conducted in Spanish. *Three hours a week, winter and spring quarters.* Professor Leavitt.

51. SPANISH CONVERSATION AND COMPOSITION (5). Prerequisite, Spanish 23.

The object of this course is to provide students with an opportunity to acquire practice in spoken Spanish. Discussion in Spanish on subjects of general interest. Composition and outside reading. *Five hours a week, fall or winter, or spring quarter.* Professors N. B. Adams, Stoudemire; Dr. Hayes.

71. SURVEY OF SPANISH LITERATURE TO 1700 (5). Prerequisite, Spanish 23.

A survey of Spanish literature from the twelfth century through the *Siglo de Oro.* This course is designed especially to present a thorough background in Spanish literature. Lectures, readings from representative authors, especially from the drama, picaresque novel, and Cervantes. Open to juniors and seniors. *Five hours a week, fall or spring quarter.* Professor Stoudemire.

72. SURVEY OF SPANISH LITERATURE SINCE 1700 (5). Prerequisite, Spanish 71.

A survey of Spanish literature from 1700 to the present. This course is designed especially to present a thorough background in Spanish literature. Lectures and readings from the eighteenth century, nineteenth century drama, regional novel, and "Generation of '98." Open to juniors and seniors. *Five hours a week, fall or winter quarter.* Professor Stoudemire.

Courses for Graduates and Advanced Undergraduates

109. EARLY SPANISH PROSE FICTION (5). Prerequisite, Spanish 72.

A study of the origins and developments of the novel in Spain up to the time of Cervantes. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor N. B. Adams.

110. THE SPANISH NOVEL—1605-1898 (5). Prerequisite, Spanish 72.

A survey of the novel from Cervantes through the nineteenth century. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor N. B. Adams.

111. MODERN SPANISH NOVELISTS (5). Prerequisite, Spanish 72.

A study of the "Generation of '98," with consideration of present day tendencies. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor N. B. Adams.

115. EARLY LYRIC POETRY (5). Prerequisite, Spanish 72.

A survey of lyric poetry in the Spanish peninsula from the origins through the *Siglo de Oro.* (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor N. B. Adams.

116. MODERN LYRIC POETRY (5). Prerequisite, Spanish 72.

Brief treatment of the poetical schools of Seville and Salamanca in the eighteenth century and study of Spanish lyric poetry through the nineteenth century to the present day. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor N. B. Adams.

131. LOPE DE VEGA AND HIS CONTEMPORARIES (5). Prerequisite, Spanish 72.

Reading of representative plays of Lope de Vega, Tirso de Molina, Guillén de Castro, Ruiz de Alarcón, etc. Lectures and reports. (1939-1940 and alternate years.) *Five hours a week, fall quarter.* Professor Leavitt.

132. CALDERON AND HIS CONTEMPORARIES (5). Prerequisite, Spanish 72.

Reading of representative plays of Calderón, Moreto. Rojas, etc. Lectures and reports. (1939-1940 and alternate years.) *Five hours a week, winter quarter.* Professor Leavitt.

134. SPANISH DRAMA OF THE NINETEENTH CENTURY (5). Prerequisite, Spanish 72.

Reading of representative plays of this period. Lectures, oral and written reports. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Leavitt.

135. MODERN SPANISH DRAMA (5). Prerequisite, Spanish 72.

Reading of plays of Dicenta, Benavente, Linares Rivas, the Alvarez Quintero brothers, Marquina, Martínez Sierra, etc. Lectures, oral and written reports. (1940-1941 and alternate years.) *Five hours a week, winetr quarter.* Professor Leavitt.

145. SPANISH PHONETICS (5). Prerequisite, Spanish 72.

A detailed study of the Spanish vowel and consonant sounds by the phonetic method. This course is required of candidates with a major in Spanish for the master's degree, and it should be elected by anyone who intends to teach Spanish. *FFive hours a week, spring quarter.* Professor Boggs.

ITALIAN

Courses for Undergraduates

51. ELEMENTARY COURSE (5). Prerequisite, French 11-12-13 or Spanish 11-12-13.

Grammar, pronunciation, oral and written exercises. Reading of modern Italian texts. *Five hours a week, fall quarter.* Professor Huse.

52. MODERN ITALIAN LITERATURE (5). Prerequisite, Italian 51.

Continuation of Course 51 with reading from modern Italian poets, dramatists, and novelists. *Five hours a week, winter quarter.* Professor Huse.

Courses for Graduates and Advanced Undergraduates

131. DANTE (5). Prerequisite, Italian 51 and 52.

The *Vita Nuova* and the *Inferno,* with some references to origins of Italian literature and to the poets of the *dolce stil nuovo.* (1939-1940 and alternate years.) *Five hours a week, spring quarter.* Professor Huse.

132. DANTE (5). Prerequisite, Italian 131.

The *Purgatorio* and the *Paradiso.* (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Huse.

156. DANTE IN ENGLISH TRANSLATION (5).

The *Vita Nuova* and the *Divine Comedy;* the precursors of Dante and the poets of the *dolce stil nuovo.* Special studies of Dante's political and social philosophy, with particular emphasis on Dante as a poet and as a guide. *Five hours a week, fall quarter.* Professor Huse.

161. ITALIAN LITERATURE OF THE RENAISSANCE (5). Prerequisite, Italian 51 and 52.

Readings from the principal authors, with special emphasis on Ariosto, Machiavelli, Castiglione, and the lyric poets. Collateral reading on the history of Italian culture during the Renaissance. *Five hours a week, winter quarter.* Professor Huse.

*DEPARTMENT OF SOCIOLOGY

Professors: H. W. Odum, H. D. Meyer, S. H. Hobbs, Jr.
Research Professors: E. R. Groves, R. B. Vance.
Associate Professors: **W. B. Sanders, L. M. Brooks.
Research Associates in Institute for Research in Social Science: G. B. Johnson, Katharine Jocher, Harriet Herring, Margaret Jarman Hagood.
Research Assistant: D. S. Klaiss.
Teaching Fellow: Gordon W. Lovejoy.
Assistants: Joseph T. Drake, Trez P. Yeatman, R. B. Barham.

Courses for Undergraduates

Students with one or more elective courses in sociology may take either Sociology 51 or 52.

21-22-23. COMPREHENSIVE INTRODUCTORY COURSE IN SOCIOLOGY (9).

A comprehensive introduction to sociology and its newer developments. Study of sociological principles, processes, and theories integrated with social problems and social direction. How to study society; methods; techniques; research. Sophomore elective. *Three hours a week, through the year.* Professors Meyer, Vance, Brooks; Teaching Fellow.

51. INTRODUCTION TO SOCIOLOGY (5).

Emphasis on social origins as found in primitive society and upon the underlying fundamentals of geography, biology, psychology, and culture in contemporary society; social institutions; the elements of social theory. Sociology 51 may not be counted for credit by a student who has credit for Sociology 21-22-23 or equivalent. *Five hours a week, every quarter.* Professor Brooks.

52. SOCIAL PROBLEMS (5).

Primary emphasis on positive features with secondary and elemental study of social pathology; such problems as the community, race, population, crime, and poverty, preparatory to advanced study in such courses as Sociology 168, 185, 186, 192, 193, and others. *Five hours a week, every quarter.* Professor Meyer.

62. MARRIAGE (5). Open to seniors.

A discussion of the practical problems of marriage, parenthood, and family adjustment. *Five hours a week, every quarter.* Professor Groves; Mr. Klaiss.

Courses for Graduates and Advanced Undergraduates

151. SOCIAL ANTHROPOLOGY (5).

A general course in social anthropology, but with some attention to physical anthropology and archaeology. The nature of culture;

* For a major in the Department Sociology 51 and 52 are prequisite if the student has not completed Sociology 21-22-23. Sociology 152 is required in addition to the preceding courses. All other courses in the major are elective. The number of courses required for a major in Sociology is six provided Sociology 21-22-23 or 51 and 52 have been completed, or eight if these preliminary courses have not been completed.

** Absent on leave, fall quarter, 1938.

culture processes; the modern cultural environment; and social change. *Five hours a week, spring quarter.* Professor Johnson.

152. SOCIAL THEORY (5).

A survey of the range of contemporary social theory with preliminary consideration of its historical backgrounds. Leading theories are summarized, compared, and criticized. Required of all whose majors are in sociology and of all candidates for graduate degrees. *Five hours a week, fall or spring quarter.* Professor Vance.

153. HOW TO STUDY SOCIETY (5). Prerequisite, three courses in Sociology.

An introduction to the quantitative methods of studying society. The course includes the elements of statistical theory applied to selected problems. There is practical treatment of the following topics: planning of research projects, collection of data, tabulation, analysis, interpretation, and presentation of results. If Sociology 191 has been taken, Sociology 153 may not be taken for credit. *Five hours a week, spring quarter.* Professor Hagood.

154. CONTEMPORARY SOCIETY.

The study of the cultural evolution of society from the viewpoint of the folk regional development—Folkways—Stateways—Geographic factors—Regions—States—The application to contemporary American society—Application to democracy—Social achievements—The teachings of sociology in relation to modern technology and change. *Five hours a week, fall quarter.* Professor Odum.

155. SOCIAL PROGRESS AND SOCIAL VALUES (5). Open to juniors and seniors.

This course reviews the theories and philosophy of social progress; studies social trends and social change; attempts to set up objective measuring scales of change; attempts to appraise objectively aspects of material progress and of social progress and social regress. After brief consideration of social values it attempts to set up certain objectives and goals of social achievement as a framework upon which to measure and project human progress. *Five hours a week, winter quarter.* Professor Odum.

160. INTRODUCTION TO SOCIAL WORK (5).

A course in social problems adapted to meet the needs of students entering upon professional training for social work. *Five hours a week, fall or spring quarter.* Professor Sanders.

161. THE FAMILY (5).

The history, purpose, and problems of the family, with especial attention to social conditions influencing family life and to efforts for family conservation. Open to men and women. *Five hours a week, winter quarter.* Professor Groves; Mr. Klaiss.

168. THE COMMUNITY (5).

1. A study of urban structure and growth, with primary emphasis upon such problems and programs as housing, delinquency areas, recreation, and decentralization. 2. Community organization, its origins, development, problems, and prospects. Large use will be made of recent literature in this field. *Five hours a week, spring quarter.* Professor Brooks.

169. THE INDUSTRIAL COMMUNITY (5).

A study of the industrial community with special reference to types in the South; the coming of industry and the industrial community; analysis of the various types and comparison with non-industrial communities within and outside the South; special problems such as paternalism, community organization, social work, and economic and labor problems, as they affect the community. *Five hours a week, winter quarter.* Professor Herring.

171. EDUCATIONAL SOCIOLOGY (5).

Education as a process of social control and achievement. The social resources of the school and other educational resources. Social problems of the teacher. *Five hours a week, fall or spring quarter.* Professor Meyer.

173. PLAY AND RECREATION (5).

The theories of play, play activities, attitudes, history of the play movement, play leadership, programs, values, sex and age differences, classification of movements, application to community life. *Five hours a week, spring quarter.* Professor Meyer.

175. EXTRA-CURRICULAR ACTIVITIES (3).

Clubs, student participation in school government, physical education, publicity in school publications, commencement, many miscellaneous topics, theoretical and practical studies of institutions promoting successful programs, bibliographical materials. *Three hours a week, winter quarter.* Professor Meyer.

181. REGIONAL SOCIOLOGY OF THE SOUTH (5).

An introductory study of southern regions, land and people, based upon *Southern Regions of the United States* and its *Manual.* Emphasis is given to facts, factors, and policies pertaining to geography and culture, resources and waste, social institutions and planning; and to the several methods of investigating regions in terms of social science. *Five hours a week, fall quarter.* Professor Brooks.

185. THE NEGRO (5).

A study of the American Negro, with particular reference to the South; the historical and cultural background of the Negro in Africa and in America; development since emancipation; bi-racial system; and problems of race relations. *Five hours a week, fall quarter.* Professor Johnson.

186. POPULATION (5).

A study of problems of quality and quantity of population including theories of population increase, and problems of race, immigration, and eugenics. *Five hours a week, winter quarter.* Professor Vance.

191. SOCIAL STATISTICS (5). Prerequisite, three courses in Sociology.

This course covers frequency distributions, unreliability, simple correlation, index numbers, and time series with especial consideration of their utility for analysis of sociological data. If Sociology 153 has been taken, Sociology 191 may not be taken for credit. *Five hours a week, fall quarter.* Professor Hagood.

192. CRIME (5).

Criminology and penology; the study of historical and contemporary theory and practice. *Five hours a week, winter quarter.* Professor Brooks.

193. SOCIAL PATHOLOGY (5).

Emphasis on poverty and relief with coordinate study of delinquency, vagrancy, prostitution, alcoholism, crime, mental defect, etc. Analysis of therapeutic measures. Occasional field trips to county and state institutions. *Five hours a week, winter quarter.* Professor Meyer.

198. JUVENILE DELINQUENCY (5).

An evaluation of the major causative factors in delinquency from the viewpoint of the social sciences. *Five hours a week, fall or spring quarter.* Professor Sanders.

COURSES IN RURAL SOCIAL-ECONOMICS

Courses for Undergraduates

53. RURAL SOCIAL-ECONOMICS (5). Prerequisite, one course in introductory economics advised.

A general introductory course in the principles and problems of rural economics, with attention given to the relationship between economic and social conditions, especially in the South. Covers such topics as historic background, farm population and labor, land, land tenure, land policies, rural credits, marketing, farm policies, prices, wealth and income, farmers' movements, etc. *Five hours a week, fall quarter.* Professor Hobbs.

54. RURAL COOPERATION: HISTORY, PRINCIPLES, PRACTICES (5).

Lecture and research. Historical background abroad and at home; principles of cooperation; fields of cooperative activity, both economic and social. *Five hours a week, spring quarter.* Professor Hobbs.

71. RURAL SOCIOLOGY (5).

Introduction to Rural Sociology, covering such topics as rural society and rural sociology, socio-economic aspects of agriculture, conditions and movements of rural population, rural social institutions and agencies, bio-social conditions, socio-cultural conditions, rural-urban relations, etc. *Five hours a week, winter quarter.* Professor Hobbs.

73. THE RURAL COMMUNITY (5).

Lecture and research. Deals with the rural community as a sociological group, evolution of the rural community, village-community economy, social institutions, modern rural and agricultural community, social organization, social control, sociological significance, the future of the rural community, etc. (In alternating years.) *Five hours a week, spring quarter.* Professor Hobbs.

91, 92, 93. LABORATORY COURSES IN RURAL ECONOMICS AND SOCIOLOGY (5 each). Corequisite, 51 or 71.

Home-state studies, home-county studies, research projects and surveys. Hours arranged to suit the convenience of the student. *Nine hours laboratory and one hour seminar a week, fall, winter, and spring quarters.* Professor Hobbs; Assistant.

Courses for Graduates and Advanced Undergraduates

101. NORTH CAROLINA: ECONOMIC AND SOCIAL (5).

This course is designed to familiarize the student with North Carolina: population, agriculture, resources, social life, economic development, industry, wealth, taxation, education, public welfare. *Five hours a week, fall or spring quarter.* Professor Hobbs.

103. HISTORY OF AGRICULTURE (5).

This course traces the development of agriculture from its earliest beginnings to the present: earliest beginnings; Greece and Rome; later agriculture in Europe; American agriculture. References: Gras, *A History of Agriculture*; Schmidt and Ross, *Readings in the Economic History of American Agriculture;* special readings. *Five hours a week, spring quarter.* Professor Hobbs.

110. RURAL LAND PLANNING AND LAND ECONOMICS (5). Prerequisite or corequisite, general economics, or Rural Economics 51.

This is an introductory course to the broad field of land economics, with special attention given to farm and forest land resources, utilization, and conservation in the United States. A few subjects covered are: The problem of land economics; characteristics and classification of land; present and future utilization of land; property in land; land tenure; land taxation; social ends of land utilization; policies of land settlement and development; rural resettlement; forest conservation. (In alternating years.) *Five hours a week, winter quarter.* Professor Hobbs.

*DEPARTMENT OF ZOOLOGY

Professors: R. E. COKER, **H. V. WILSON, †C. D. BEERS.
Assistant Professor: D. P. COSTELLO.
Instructors: W. L. ENGELS, G. H. TUCKER.
Teaching Fellow: Q. R. MURPHY, JR.
Fellow by Courtesy: HELEN M. COSTELLO.
Assistants: J. A. FINCHER, P. L. CARPENTER, J. H. ALLEN, L. I. GARDNER, N. G. HAIRSTON, A. DOROTHY AYCOCK, J. C. BRANTLEY, JR., J. A. TAYLOR.

Courses for Undergraduates

1. (NATURAL SCIENCE 1). ELEMENTS OF PLANT BIOLOGY (4). Freshman elective. See Department of Botany.

2. (NATURAL SCIENCE 2). ELEMENTS OF ANIMAL BIOLOGY (4). Freshman elective.

An introduction to structure and function in the animal body, with some consideration of man's relation to his environment, both organic

---

* For A.B. with major in Zoology, there are required six courses in Zoology of the level of 41 or higher, or five in Zoology with Botany 41. Six courses should be taken in other Departments of the Division of the Natural Sciences including two courses in Chemistry and two courses in Physics, if these have not been taken in the General College. Six courses should be in departments outside the Division of the Natural Sciences. (But see also note on page 74.) At least three courses should be taken in one Department other than Zoology either within or without the Division.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 127.

** Died 4 January 1939.

† Absent on leave, 1938-1939.

and inorganic, and a review of animal types. *Three lecture and two laboratory hours a week, fall, winter or spring quarter. Laboratory fee, $2.00.* Professor Costello.

3a. (NATURAL SCIENCE 3a). ELEMENTS OF HUMAN PHYSIOLOGY (4). Freshman elective. See courses in Medical Science.

3b. (NATURAL SCIENCE 3b). ELEMENTS OF GEOLOGY (4). Freshman elective. See Department of Geology.

3c. (NATURAL SCIENCE 3c). GEOGRAPHY (4). Freshman requirement for the School of Commerce. See Department of Geology.

41. FUNDAMENTALS OF ANIMAL BIOLOGY (6).

Principles of biology; elements of anatomy, physiology, and classification of vertebrate animals. Dissection of frog and dogfish and study of tissues, as necessary for an understanding of the organization and functions of vertebrate animals and especially of man. Sophomore, junior, and senior elective. *Four lecture and four laboratory hours a week, fall or winter quarter. Laboratory fee, $5.00.* Professor Coker; Mr. Tucker; Assistants.

42a, 42c. PRINCIPLES OF ANIMAL BIOLOGY (3 each). Prerequisite, Zoology 41. Optional accompanying course, Zoology 42b.

Basic facts and theories of individual development, heredity, and evolution; with introduction to invertebrate zoology. *Three hours a week, spring quarter.* Section (*a*): Professor Coker; Section (*b*): Dr. Engels.

42b. INVERTEBRATE ZOOLOGY (3). Prerequisite, Zoology 41. Optional accompanying course: Zoology 42a or 42c.

Study of invertebrate animals as examples of the varied forms of life and as concrete illustrations of the principles of biology. Field trips are made to observe and collect animals in nature. *One lecture and four laboratory hours a week, spring quarter. Laboratory fee, $5.00.* Professor Coker; Dr. Engels; Assistants.

Courses for Graduates and Advanced Undergraduates

103. COMPARATIVE ANATOMY OF VERTEBRATES (6). Prerequisite, Zoology 41 and 42ab or 42bc.

Dissection of types especially amphioxus, petromyzon, fish, fowl, rabbit. Laboratory work with occasional lectures. *Two lecture and nine laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professor Beers; Dr. Engels.

104. COMPARATIVE EMBRYOLOGY OF VERTEBRATES (6). Prerequisite, Zoology 103. Students who have not had Zoology 103 may be admitted by special permission.

Maturation and fertilization phenomena in some invertebrate types; segmentation and formation of germ layers in frog and teleost fish; germ layers and development of characteristic vertebrate organs in chick; essentials of microscopic technique. Laboratory work with occasional lectures. *Two lectures and nine laboratory hours a week, winter quarter. Laboratory fee, $10.00.* Professor Beers; Dr. Engels.

105. VERTEBRATE HISTOLOGY AND MICROTECHNIQUE (6). Prerequisite, Zoology 104.

Microscopic preparations of selected tissues and organs are made from the fresh animal and studied with the help of texts and original

papers. Laboratory work with assigned readings and seminar reports. *Two lecture and nine laboratory hours a week, spring quarter. Laboratory fee, $10.00.* Professor Costello (1938-1939), Professor Beers (1939-1940).

106-107-108. MORPHOLOGY AND CLASSIFICATION OF THE INVERTEBRATES (15). Prerequisite, Zoology 41 and 42ab or 42bc.

Dissection and microscopic study of types of the chief orders, with some consideration of life histories; systematic diagnosis. Basic course for all advanced work in zoology. Laboratory work with occasional lectures. *Ten laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* *Professors Wilson, Taylor.

109. INTRODUCTION TO HYDROBIOLOGY (5). Prerequisite, Zoology 41 and 42ab or 42bc.

A study of animal life in water, with special reference to the relation of animals to each other and to their environments. Field and laboratory work, lectures, reading of special papers, discussions. *Ten laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Professor Coker.

110. PARASITOLOGY (MEDICAL ZOOLOGY) (5). Prerequisite, Zoology 41 and 42ab or 42bc.

A consideration of the structure, classification, and life histories of the protozoa and worms of medical importance and of the arthropods which either cause disease directly or which transmit the bacteria, protozoa, and worms of diseases. *Lectures and demonstrations, five hours a week, winter quarter.* Professor Beers.

* Died 4 January 1939.

INDEX

Administration, Officers of, 6.
Administrative Boards, *see under each division.*
Admission to the College of Arts and Sciences, 68.
to the General College, 57 ff.
to the School of Commerce, 89.
to Advanced Standing, 61, 68, 89.
Admissions and Records, Division of, 14.
Aid, Pecuniary, 29 ff.
Archaeology, Courses in, 112-113.
Art, Courses in, 97 ff.
Arts and Sciences, College of, 66 ff.
Athletics, 11.
Rules of Eligibility for, 49 ff.
Attendance Regulations on, 41 ff.
Biblical History, etc., Courses in, 101.
Bills, Regulations concerning, 39.
Botany, Courses in, 102 ff.
Carolina Playmakers, 23.
Catalogue of Events. 4.
Certificates, Entrance by, 57.
Chemistry, Curriculum in, 81.
Courses in, 105 ff.
Classical Languages, Courses in, 108 ff.
College of Arts and Sciences, 66 ff.
Commerce, Curricula in, 89 ff.
Courses in, 122 ff.
School of, 84 ff.
Special Students in, 87.
Comparative Literature, Courses in, 144 ff.
Comprehensive Examinations, 43.
Council, Student, 17.
Courses by Departments, 97 ff.
Method of Numbering, 96.
Reduction of Credit for, 96.
Degrees, A.B.—69; S.B.—77, 80 ff; 89 ff.
Delayed Registration, 27, 40.
Diploma Fee, 27.
Distinction, Degrees with, 72, 74.
Divisions, Upper, 70 ff.
Dormitory Accommodations, 27-28.
Dramatic Art, Courses in, 113 ff.
Economics, Courses in, 117 ff.
Education, Courses in, 127 ff.
Eligibility, Rules of, 49, 53.
English, Courses in, 138 ff.
Entrance Examinations, 60.
Requirements, 58 ff.
Examinations, Comprehensive, 43.
to Remove Conditions, 44.
Regulations on, 43 ff.
Expenses, Fees, etc., 25 ff.
Fellowships and Scholarships, 29 ff.
Free Tuition, 33.
French, Courses in, 190 ff.
General College, 54 ff.
Programs in, 63 ff.
General Literature, Courses in, 144 ff.
Geography, Courses in, 149 ff.
Geology, Courses in, 147 ff.
Curriculum in, 81.
German, Courses in, 151 ff.
Government, Courses in, 183 ff.
Student, 17.
Grades of Scholarship, 45.
Graduation, Fee for, 27.
Greek, Courses in, 108 ff.
Guidance of Students, 62.
History, Courses in, 153 ff.
Honorable Dismissal, 48.
Honors, Programs for, 72, 74.
Intercollegiate Athletics, 49.
Intramural Athletics, 11.
Italian, Courses in, 196.
Journalism, Courses in, 158-159.
Curriculum, 79.
Laboratory Fees, 27.
Late Registration, 27, 40.
Latin, Courses in, 109 ff.
Laundry, Fee for, 27.
Law, Combined Degrees in, 79, 94.
Library, University, 18.
Library Science, Courses in, 159-160.
Loan Funds, 33 ff.
Mathematics, Courses in, 160 ff.
Medical Attention, 12.
Medical Sciences, Courses in, 164 ff.
Medicine, S.B. in, 81.
Music, Courses in, 167 ff.
Musical Activities, 21.
Non-resident Fees, 25-26.
Non-residents, Admission of, 62.
Pecuniary Aid, 29 ff.
Philosophy, Courses in, 171 ff.

Physical Education, 11.
Courses in, 176 ff.
Physics, Courses in, 179 ff.
Curriculum in, 82.
Playmakers, Carolina, 23.
Political Science, Courses in, 183 ff.
Psychology, Courses in, 188 ff.
Public Speaking. See English.
Qualitative Requirements, 46.
Record, Statements of, 27, 48.
Reduction of Credit, 96.
Reentrance, Requirements for, 46.
Registration, Regulations on, 27, 40.
Regulations, 39.
Religious Influences, 11.
Romance Languages, Courses in, 190 ff.
Pooms, Assignment of, 40.
Rural Social-Economics, Courses in, 200-201.
Scholarships, List of, 29 ff.
Self-Help, 38.
Sociology, Courses in, 197 ff.
Southern Conference Rules, 49.
Spanish, Courses in, 193 ff.
Special Examinations in September, 45.
Special Students, Admission of, 87.
Student Council, 17.
Employment, 38.
Government, 17.
Guidance, 62.
Loan Funds, 33 ff.
Welfare Division, 16.
Teacher Training, 68, 74 ff.
Transcripts of Record, 27, 48.
Tuition Fees, 26.
Tuition, Free, 33.
University, Foundation, etc., 9.
University Organizations, 20.
Withdrawal, Regulations on, 47.
Women, Admission of, 68, 89.
Dormitories for, 28.
Y. M. C. A., 23.
Y. W. C. A., 24.
Zoology, Courses in, 201 ff.